Substitute Form PTO 15 18 9		06-28-1999		Attorney Docket No.: 07071/008001 HEET		
<u>As</u>	sistant Commissioner for Patents: I	101077408		riginal document.		- L
1.	Name of conveying party(ies):			e and address of rece	eiving party(ies):	3630
	Richard H. Deitch Thomas G. Digges, Jr.		1501	nia Semiconductor Powhatan Street ericksburg, VA 2246	n4	09/3
	Additional name(s) attached? ☐ Yes ■ No					T ==
3.	Nature of conveyance:		Addit	ional names/address	es attached? `	Yes ■ No
	■ Assignment □ Merger □ Security Agreement □ Change of Name □ Other:					
	Execution Date:					
	June 18, 1999, June 18, 1999, respectively					
4. Application number(s) or patent number(s):						
	If this document is being filed with a new application, the execution date of the application is: June 18, 1999 A. Patent Application No.(s): B. Patent No.(s): Once 18, 1999 Solution No.(s): Once 18, 1999					
	A. Patent Application No.(s):		B. Patent	: No.(s): $O9/2$	33630	5
		Additional numbers atta	iched? □	Yes ■ No		
5.	Name/address of party to whom correconcerning document should be mail		6. Total number of applications/patents involved: 1			
	Scott C. Harris		7. Total	fee (37 CFR 3.41): \$	640	
	Fish & Richardson P.C. 4225 Executive Square, Suite 1400 La Jolla, CA 92037			closed thorized to charge de	eposit account	
			If the a dup Pleas	osit account number: If ee above is being coolicate copy of this cose apply any additional If Deposit Account No	harged to depos ver sheet is attadal al charges, or ar	ched.
		DO NOT USE TH	IS SPACI	<u></u>		
9.	Statement and signature: To the best attached is a true copy of the original Diune Gardner for Scott C. Harris Name of Person Signing	t of my knowledge and be document. Signature	elief, the f	m2	is true and corre	ect and the

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

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PATENT REEL: 010046 FRAME: 0277

PATENT ATTORNEY DOCKET NO.: 07071/008001

ASSIGNMENT

For valuable consideration, we, Richard H. Deitch, of Worthington, Ohio; Thomas G. Digges, Jr., of Fredericksburg, VA; hereby assign to Virginia Semiconductor, a Virginia corporation having a place of business at 1501 Powhatan Street, Fredericksburg, VA 22401, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us this day, entitled A METHOD FOR FORMING A SOLID SOLUTION ALLOY CRYSTAL, filed (herewith), and assigned U.S. Serial Number (not yet assigned), and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Richard H. Deitch

| 1999
| Cover of Sugar | 1999
| Thomas G. Digges, Jr.

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RECORDED: 06/18/1999

PATENT REEL: 010046 FRAME: 0278