FORM PTO-1595 MODIFIED RECORDA 05 -	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
MED PA'	Patent and Trademark Office
Tab seitings ÈÈÈ t 4.14.00t 101	
To the Honorable Commissioner of Patents and Trademarks:	350273t_tad original documents r copy thereof.
1. Name of conveying party(ies): Christopher P. Zook, Stephen A. Turk, Marvin L. Vis	2. Name and address of receiving parties. Name: Cirrus Logic, Inc. Internal Address: Intellectual Property Dept.
Additional name(s) of conveying party(ies) attached?	Intellectual Property Dept. 7
3. Nature of conveyance:	
	Street Address: 3100 W. Warren Ave., M/S 521
☐ Security Agreement ☐ Change of Name	Other - 71D: 04530 6410
Other	City: Fremont State: CA. ZIP: 94538-6419
Execution Date: 2/16/00	Additional name(s) & address(es) attached?
4.Application number(s) or patent number(s):	
If this document is being filed together with a new application, to A. Patent Application No.(s) -Unassigned 09/521,554	the execution date of the application is: B. Patent No.(s)
Additional numbers attac	ched? ☐ Yes ☒ No
Name and address of party to whom correspondence concerning document should be mailed: Name: Cirrus Logic, Inc.	6. Total number of applications and patents involved:
Internal Address.	7. Total fee (37 cfr 3.41):\$ 40.00
Internal Address: Intellectual Property Dept.	☐ Enclosed
	Authorized to be charged to deposit account
Street Address: 3100 W. Warren Ave., M/S 521	8. Deposit account number:
	03-2028
City: Fremont State: CA. ZIP: 94538-6419	(Attach duplicate copy of this page if paying by deposit account)
DO NOT USE THIS SPACE	
05/08/2000 DCDATES: 00000221 032028 09521554	
01 FC:581 40.00 CH	
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.	
Dan Shifrin	Shlim 3/20/on
Name of Person Signing	Signature Date Total number of pages comprising cover sheet: 3
	PATENT

REEL: 010753 FRAME: 0878

PATENT Docket: 1011-MS

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, WE the undersigned, Christopher P. Zook, Stephen A. Turk, and Marvin L. Vis all of Colorado ("Assignor"), hereby sell, assign, and transfer to CIRRUS LOGIC, INC. a corporation of Delaware, having a principal place of business at 3100 West Warren Avenue, M/S 521; Fremont, California 94538 ("Assignee") its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith and which we authorize our attorney to insert here in parentheses (Application number 09/ $\frac{521}{554}$, filed $\frac{3}{9}$ / $\frac{9}{00}$) the filing date and application number when known, and is entitled:

TITLE: MULTIPLE-RATE CHANNEL ENDEC IN A COMMUTED READ/WRITE CHANNEL FOR DISK STORAGE SYSTEMS

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application.

The undersigned further agree that the said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof and do everything possible said Assignee, its successors, assigns, and representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and representatives.

PATENT REEL: 010753 FRAME: 0879

Cirrus Logic, Inc. Serial No.: 09/521,554
Date: 7-16, 2000 Christopher P. Zook
State of: Colorado County of: Boulder
On this 16^{th} day of $\overline{160}$, in the year of 2000 before me, Linda Buntain,
personally appeared Christopher P. Zook personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.
Signature (Seal)
, ,
Date: Feb. 16, 2000 Stephen a. Turk Stephen A. Turk
State of: <u>Colorado</u> County of: <u>Boulder</u>
On this 6 day of $\frac{1}{100}$, in the year of 2000 before me, Linda Buntain,
personally appeared Stephen A. Turk personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.
Signature (Seal)
Date: FER 16, 2000 Marvin L. Vis
State of: <u>Colorado</u> County of: <u>Boulder</u>
On this 6 day of $\overline{FE}b$, in the year of 2000 before me, Linda Buntain,
personally appeared Marvin L. Vis personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.
Signature Juda Juniau (Seal)

PATENT
RECORDED: 04/14/2000 REEL: 010753 FRAME: 0880