

MRD 9-28-98



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To the Honorable Commissioner of Patents and Trademarks, please return the attached original documents or copy thereof.

1. Name of conveying party(ies):
Paul M. Romano, Louis Supino, Christopher T. Settje

2. Name and address of receiving party(ies):
Name: Cirrus Logic, Inc.

Internal Address:
Intellectual Property Dept.

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

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Street Address: 3100 W. Warren Ave., M/S 521

City: Fremont State: CA. ZIP: 94538-6419

Execution Date: _____

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:

A. Patent Application No.(s)

09/145,525

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Cirrus Logic, Inc.

Internal Address:
Intellectual Property Dept.

Street Address: 3100 W. Warren Ave., M/S 521

6. Total number of applications and patents involved:

7. Total fee (37 cfr 3.41):.....\$ 40.00

Enclosed
 Authorized to be charged to deposit account

8. Deposit account number:

03-2028

(Attach duplicate copy of this page if paying by deposit account)

(09/30/1998 JSWADAZZ 00000081 032028 09143525)
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City: Fremont State: CA. ZIP: 94538-6419

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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.

Dan Shifrin

Name of Person Signing

Signature

9/22/98

Date

Total number of pages comprising cover sheet:

PATENT

REEL: 9513 FRAME: 0748

A S S I G N M E N T

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, WE the undersigned, Paul M. Romano, Louis Supino and Christopher T. Settje all of Colorado ("Assignor"), hereby sell, assign, and transfer to CIRRUS LOGIC, INC. a corporation of California, 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 09/145,525, filed 9/2/98) the filing date and application number when known, and is entitled:

TITLE: REFERENCE ESTIMATOR IN A DISCRETE-TIME SLIDING MODE CONTROLLER

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.

Date: 8/24/98, 1998 Paul M Romano
Paul M. Romano

State of: Colorado
County of: Boulder

On this 24 day of Aug, in the year of 1998 before me, Linda Buntain,
personally appeared Paul M. Romano 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.

WITNESS my hand and official seal.
Signature Linda Buntain (Seal)

Date: 8/24/98, 1998 L. Supino
Louis Supino

State of: Colorado
County of: Boulder

On this 24th day of Aug, in the year of 1998 before me, Linda Buntain,
personally appeared Louis Supino 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.

WITNESS my hand and official seal.
Signature Linda Buntain (Seal)

Date: 8/21, 1998 Christopher T. Settje
Christopher T. Settje

State of: Colorado
County of: Boulder

On this 21st day of Aug, in the year of 1998 before me, Linda Buntain,
personally appeared Christopher T. Settje 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.

WITNESS my hand and official seal.
Signature Linda Buntain (Seal)