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Assignment  Security Agreement

License  Change of Name

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10564 U.S. PTO  
09/518111  
03/63/00

Conveying Party(ies)

Mark if additional names of conveying parties attached

Execution Date  
Month Day Year

Name (line 1) Reed, David E.

3/1/00

Name (line 2)

Second Party

Name (line 1) Dudley, Trent

Execution Date  
Month Day Year  
3/1/00

Name (line 2)

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) Cirrus Logic, Inc.

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1) 3100 West Warren Avenue

Address (line 2)

Address (line 3) Fremont CA 94583-6419  
City State/Country Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name Dan A. Shifrin

Address (line 1) Cirrus Logic, Inc.

Address (line 2) Legal Department, MS 521

Address (line 3) 3100 West Warren Avenue

Address (line 4) Fremont, CA 94583-6419

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Name

Address (line 1)

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**Application Number(s) or Patent Number(s)**

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

**Patent Application Number(s)**

**Patent Number(s)**

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

**Patent Cooperation Treaty (PCT)**

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT  PCT  PCT

PCT  PCT  PCT

**Number of Properties**

Enter the total number of properties involved. #

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41): \$

Method of Payment:  
Deposit Account

Enclosed  Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number: #

Authorization to charge additional fees: Yes  No

**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. Charges to deposit account are authorized, as indicated herein.*

Dan A. Shifrin

Name of Person Signing



Signature

Date

**JOINT TO CORPORATE ASSIGNMENT**

WHEREAS, the undersigned,

1. David E. Reed \_\_\_\_\_ 2. Trent Dudley \_\_\_\_\_

3. \_\_\_\_\_ 4. \_\_\_\_\_

(hereinafter termed "Inventors"), residents of

1. 9747 West 99<sup>th</sup> Pl., Westminster, CO 80021 2. 5398 South Fox #101, Littleton, CO 80120

3. \_\_\_\_\_ 4. \_\_\_\_\_

Respectively, Counties of

1. \_\_\_\_\_ 2. Arapahoe \_\_\_\_\_

3. \_\_\_\_\_ 4. \_\_\_\_\_

respectively, States of

1. Colorado 2. Colorado

3. \_\_\_\_\_ 4. \_\_\_\_\_

respectively, have invented certain new and useful improvements in:

**INCREASED LOCK RANGE PLL FOR CONSTRAINED DATA**

and have executed a declaration or oath for an application for a United States patent disclosing and identifying the invention:

\_\_\_\_ On the

1. 1<sup>st</sup> day of March, 2000

2. 1<sup>st</sup> day of March, 2000

3. \_\_\_\_\_ day of \_\_\_\_\_, 2000

4. \_\_\_\_\_ day of \_\_\_\_\_, 2000

Respectively.

WHEREAS **CIRRUS LOGIC, INC.** (hereinafter termed "Assignee"), a corporation of **Delaware**, having a place of business at **3100 West Warren Avenue, Fremont, California 94583**, wishes to acquire 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, certificates of invention and other forms of protection thereon (hereinafter termed "patents" applied for or granted in the United States and/or other countries.

NOW THEREFORE, for good and valuable consideration acknowledged by each of said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey to 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 in any or all countries of the world for patents, certificates of inventions or other governmental grants on said invention, including the right to apply for patents pursuant to the International Convention for the Protection of Industrial Property or pursuant to any other convention, treaty, agreement or understanding; (c) in and to any and all applications filed and any and all patents, certificates of inventions or other governmental grants granted on said invention in the United States or any other 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; (d) in and to each and every reissue or extension of any of said patents; and (e) in and to each and every patent claim resulting from a reexamination certificate for any and all of said patents.

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 other countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, executing 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 complying with any duty of disclosure; (c) for prosecuting any of said applications; (d) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (e) for filing and prosecuting applications for reissue of any of said patents; (f) for interference or other priority proceedings involving said invention; and (g) 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, reexamination proceedings, compulsory licensing 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 and covenants 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, the said Inventors have executed and delivered this instrument to said Assignee on the date of acknowledgment before the Notary Public as given below.

(1) David E. Reed  
David E. Reed

(1) State of Colorado  
County of Boulder

On 3/01/00 before me, Linda Buntain, Notary, personally appeared David Reed personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), 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. Linda Buntain  
Signature

(2) Trent Dudley  
Trent Dudley

(2) State of Colorado  
County of Boulder

On 03/01/00 before me, Linda Buntain, personally appeared Trent Dudley personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), 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. Linda Buntain  
Signature