



01-06-2000

1. To the Honorable Commissioner of Patents

1. Name of conveying party(ies): Xue-Mei Gong, Eric Gaslins and Mark Alexander
Additional name(s) of conveying party(ies) attached? Yes ☒ No ☐

2. Name of receiving party(ies): Cirrus Logic, Inc. Street 3100 West Warren Avenue
City Fremont State California Zip 94538
Additional name(s) & address(es) attached? Yes ☒ No ☐

3. Nature of Conveyance:
☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: October 5, 1999 and November 26, 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) 09/394,145

B. Patent No.(s) _____

Additional numbers attached? Yes ☒ No ☐

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Gregory M. Howison
THOMPSON & HOWISON, L.L.P.
Street Address: PO BOX 741715 City Dallas
State TX Zip 75374-1715

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 40.00
☒ Enclosed
Authorized to be charged to deposit account _____

8. Deposit Account Number: 20-0780/CRYS-24,266
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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.

Gregory M. Howison [Signature] 12/28/99
Name of Person Signing Signature Date

Total number of pages including cover sheets, attachments and document: _____

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Express Mail No. EL021320230US

PATENT
REEL: 010466 FRAME: 0624

ASSIGNMENT

WHEREAS, we, Xue-Mei Gong, Eric Gaalaas and Mark Alexander, citizens of P.R. CHINA, U.S.A. and U.S.A., respectively, and residents of Austin, Travis County, Texas 78739, Arlington, Massachusetts 02474, and Austin, Travis County, Texas 78739, respectively, have invented certain new and useful improvements in MULTI-BIT DAC WITH NOISE SHAPED DYNAMIC ELEMENT MATCHING for which application for United States Letters Patent was filed on September 10, 1999 and assigned Serial No. 09/394,145; and

WHEREAS, Cirrus Logic, Inc., a corporation of the State of California, which has a business address of 3100 West Warren Avenue, Fremont, California 94538, (hereinafter referred to as "Assignee"), is desirous of acquiring our entire right, title and interest in and to the invention, and in and to said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for and in good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto said Assignee, its successors, assigns and legal representatives the full and exclusive right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, continuations-in-part and extensions thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interests are concerned, to said Assignee of our entire right, title and interest.

We also hereby sell and assign to said Assignee, its successors, assigns and legal representatives the full and exclusive right, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee, its successors, assigns and legal representatives.

We hereby further agree that we will communicate to said Assignee, or to its successors, assigns and legal representatives, any facts known to us respecting any improvements, and, at the expense of said Assignee, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in said Assignee and to aid said Assignee, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

Express Mail No. EL021320230US

PATENT
REEL: 010466 FRAME: 0625

Name of First Joint Inventor: **XUE-MEI GONG**

Residence (City, County, State): **Austin, Travis County, Texas 78739**

Signature: *[Signature]*

Date: 10/5/99

Date Application Executed: 10/5/99

STATE OF **TEXAS** §
COUNTY OF **TRAVIS** § ss:

BEFORE ME, a Notary Public, on this 05 day of OCTOBER, 1999, personally appeared XUE-MEI GONG, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed same of his own free will for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL of office this 5 day of OCTOBER A.D., 1999.



[Signature]
Notary Public

Commission Expires:
MARCH 30, 2000

Express Mail No. EL021320230US

PATENT
REEL: 010466 FRAME: 0626

Name of Second Joint Inventor: **ERIC GAALAAS**

Residence (City, County, State): **Arlington, Massachusetts 02474**

Signature: *Eric P. Gaalaas*

Date: November 26th, 1999

Date Application Executed: 11/26/99

STATE OF

§

COUNTY OF

§ ss:

BEFORE ME, a Notary Public, on this 23 day of Dec., 1999, personally appeared **ERIC GAALAAS**, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed same of his own free will for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL of office this 23 day of Dec. A.D., 1999.

Vol. A. Fall

Notary Public

Commission Expires:

12-13-2006

Express Mail No. EL021320230US

PATENT
REEL: 010466 FRAME: 0627

Name of Third Joint Inventor: **MARK ALEXANDER**

Residence (City, County, State): **Austin, Travis County, Texas 78739**

Signature: *Mark Alexander*

Date: OCTOBER 5th, 1999

Date Application Executed: 10/5/99

STATE OF **TEXAS** §

COUNTY OF **TRAVIS** § ss:

BEFORE ME, a Notary Public, on this 5 day of OCTOBER, 1999, personally appeared **MARK ALEXANDER**, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed same of his own free will for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL of office this 5 day of OCTOBER A.D., 1999.



Paula Hallahunt
Notary Public

Commission Expires: MARCH 30, 2000

Express Mail No. EL021320230US

RECORDED: 01/03/2000

PATENT
REEL: 010466 FRAME: 0628