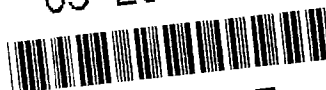


05-20-2005



103006907

DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

5/16/05

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Jianhua Gan & Jhonny Wong

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

3. Nature of conveyance/Execution Date(s):

Execution Date(s) March 19 & 24, 2005

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: Cirrus Logic, Inc.

Internal Address: _____

Street Address: 2901 Via Fortuna

City: Austin

State: Texas

Country: USA Zip: 78746

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

11/089,145

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: James J. Murphy

Internal Address: _____

Street Address: 1700 Pacific Avenue, Suite 3300

City: Dallas

State: Texas Zip: 75201-4693

Phone Number: (214) 969-1749

Fax Number: (214) 969-1751

Email Address: james.murphy@tklaw.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card
☐ Authorized to be charged to deposit account
☒ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number _____

Authorized User Name _____

9. Signature:

James J. Murphy

Signature

May 12, 2005

Date

05/19/2005 DBYRNE 00000058 11089145

01 FC:802

James J. Murphy

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 5

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

Attorney Docket No.
1561-CA

PATENT

JOINT CORPORATE ASSIGNMENT

WHEREAS, the undersigned,

1. GAN, Jianhua, resident of 15204 Calaveras Drive, Austin, Texas 78717 and
2. WONG, Jhonny, resident of 3712 Soledad, Austin, Texas 78732

have invented certain new and useful improvements in:

CONSTANT EDGE GENERATION CIRCUITS AND METHODS AND SYSTEMS USING THE SAME

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

1. On the _____ day of _____, 2005; and
 2. On the 24th day of March, 2005.
- X Said application having Application Number 11/089,145 and filed on the _____ day of 3/24/2005

WHEREAS CIRRUS LOGIC, INC. (hereinafter termed "Assignee"), a corporation of DELAWARE, having a place of business at 2901 Via Fortuna, Austin Texas 78746, 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 to any and all countries of the world for patents, 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

Attorney Docket No.
1561-CA

PATENT

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 expenses 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.

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 as given below.

Dated: _____

Jianhua Gan

Dated: 3/24/05

Johnny Wong

JOINT CORPORATE ASSIGNMENT

WHEREAS, the undersigned,

1. GAN, Jianhua, resident of 15204 Calaveras Drive, Austin, Texas 78717 and
2. WONG, Jhonny, resident of 3712 Soledad, Austin, Texas 78732

have invented certain new and useful improvements in:

CONSTANT EDGE GENERATION CIRCUITS AND METHODS AND SYSTEMS USING THE SAME

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

1. On the 19th day of March, 2005; and
 2. On the _____ day of _____, 2005.
- X Said application having Application Number 11/089,145 and filed on the _____ day of March, 2005.

WHEREAS CIRRUS LOGIC, INC. (hereinafter termed "Assignee"), a corporation of DELAWARE, having a place of business at 2901 Via Fortuna, Austin Texas 78746, 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 to any and all countries of the world for patents, 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 expenses 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.

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 as given below.

Dated: 03/19/05


Jianhua Gan

Dated: _____

Jhonny Wong