

12-09-1998



FORM PTO-1596  
1-31-92

RECORD

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Docket No.: 0886-CS

F.

100914360

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto:

12/7/98

1. Name of Conveying Party(ies):  
Joel PAGE, Edwin De ANGEL, Wai Laing LEE, Lei WANG, Hong Helena ZHENG, and Chung-Kai CHOW  
Additional name(s) of conveying party(ies) attached?  Yes

2. Name and address of receiving party(ies):  
Name: CIRRUS LOGIC, INC.  
Address: 3100 West Warren Avenue  
Fremont, California 94538  
Additional name(s) & address(es) attached?  Yes

3. Nature of Conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other  
Execution Date:

4. Application number(s) or patent number(s):  
If the document is being filed together with a new application, the execution date of the application is:  
A. Patent Application No(s).  
09/154,241-Filed September 16, 1998  
Additional numbers attached?  Yes

B. Patent No(s).

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: CIRRUS LOGIC, INC.  
Internal Address:  
Street Address: 3100 West Warren Avenue  
City: Fremont State: CA Zip: 94538

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:  
500417

DO NOT USE THIS SPACE

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.*  
Eugene J. Molinelli, 42,901  
December 7, 1998

Name and Registration No. of Person Signing Signature Date  
Total number of pages comprising cover sheet: 1

CMB No. 0851-0011 (exp. 4/94)

12/08/1998 SBURNS 00000116 500417 09154241

50246-041

01 FC:581 40.00 CH

PATENT  
REEL: 9617 FRAME: 0735

**ASSIGNMENT**

**WHEREAS WE, Joel Page of Austin, Texas; Edwin De Angel of Austin, Texas; Wai Laing Lee of Austin, Texas; Lei Wang of Austin, Texas; Hong Helena Zheng of Irvine, California; and Chung-Kai Chow of Austin, Texas, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled NOISE MANAGEMENT USING A SWITCHED CONVERTER,**

**for which an application for United States Letters Patent was filed on September 16, 1998, and identified by United States Serial No. 09/154,241;**

**AND WHEREAS, CIRRUS LOGIC, INC., a corporation of the State of California and having an address of 3100 West Warren Avenue, Fremont, California 94538 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;**

**NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, We do hereby sell, assign, transfer and set over unto CIRRUS LOGIC, INC., its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;**

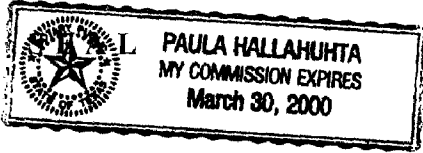
**UPON SAID CONSIDERATIONS, We hereby agree with the said assignee that We will not execute any writing or do any act whatsoever conflicting with these presents, and that We will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;**

**AND We request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said CIRRUS LOGIC, INC., its legal representatives, successors**



STATE OF TEXAS )  
 ) SS:  
COUNTY OF TRAVIS )

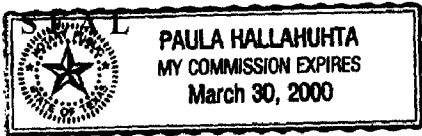
On this 17 day of NOVEMBER, 1998, before me personally appeared Edwin De Angel, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



Paula Hallahuita  
Notary Public  
My commission expires MARCH 30, 2000

STATE OF TEXAS )  
 ) SS:  
COUNTY OF TRAVIS )

On this 19 day of NOVEMBER, 1998, before me personally appeared Wai Laing Lee, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



Paula Hallahuita  
Notary Public  
My commission expires MARCH 30, 2000

STATE OF \_\_\_\_\_ )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally appeared Lei Wang, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally appeared Hong Helena Zheng, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

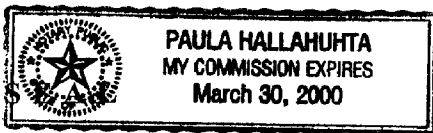
S E A L

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

STATE OF TEXAS )  
 ) SS:  
COUNTY OF TRAVIS )

On this 17 day of NOVEMBER, 1998, before me personally appeared Chung-Kai Chow, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



*Paula Hallahuita*

\_\_\_\_\_  
Notary Public

My commission expires MARCH 30, 2000

lw, 11/17/98  
College Station

## ASSIGNMENT

WHEREAS WE, Joel Page of Austin, Texas; Edwin De Angel of Austin, Texas; Wai Laing Lee of Austin, Texas; Lei Wang of Austin, Texas; Hong Helena Zheng of Irvine, California; and Chung-Kai Chow of Austin, Texas, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled NOISE MANAGEMENT USING A SWITCHED CONVERTER,

for which an application for United States Letters Patent was filed on September 16, 1998, and identified by United States Serial No. 09/154,241;

AND WHEREAS, CIRRUS LOGIC, INC., a corporation of the State of California and having an address of 3100 West Warren Avenue, Fremont, California 94538 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, We do hereby sell, assign, transfer and set over unto CIRRUS LOGIC, INC., its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATIONS, We hereby agree with the said assignee that We will not execute any writing or do any act whatsoever conflicting with these presents, and that We will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;

AND We request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said CIRRUS LOGIC, INC., its legal representatives, successors



STATE OF \_\_\_\_\_ )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally appeared Edwin De Angel, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally appeared Wai Laing Lee, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L

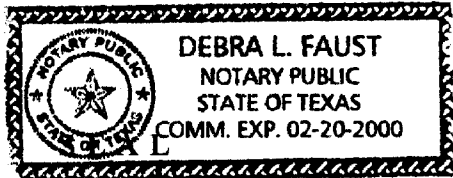
\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_



STATE OF TEXAS )  
 ) SS:  
COUNTY OF BRAZOS )

On this 19th day of November, 1998, before me personally appeared Lei Wang, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



Debra L. Faust  
Notary Public

My commission expires 2-20-2000

STATE OF \_\_\_\_\_ )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally appeared Hong Helena Zheng, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally appeared Chung-Kai Chow, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

**ASSIGNMENT**

WHEREAS WE, Joel Page of Austin, Texas; Edwin De Angel of Austin, Texas; Wai Laing Lee of Austin, Texas; Lei Wang of Austin, Texas; Hong Helena Zheng of Irvine, California; and Chung-Kai Chow of Austin, Texas, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled **NOISE MANAGEMENT USING A SWITCHED CONVERTER**,

for which an application for United States Letters Patent was filed on **September 16, 1998**, and identified by United States Serial No. **09/154,241**;

AND WHEREAS, CIRRUS LOGIC, INC., a corporation of the State of California and having an address of 3100 West Warren Avenue, Fremont, California 94538 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, We do hereby sell, assign, transfer and set over unto CIRRUS LOGIC, INC., its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATIONS, We hereby agree with the said assignee that We will not execute any writing or do any act whatsoever conflicting with these presents, and that We will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;

AND We request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said CIRRUS LOGIC, INC., its legal representatives, successors

or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Joel Page

\_\_\_\_\_  
Date

\_\_\_\_\_  
Edwin De Angel

\_\_\_\_\_  
Date

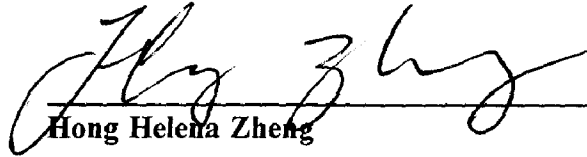
\_\_\_\_\_  
Wai Laing Lee

\_\_\_\_\_  
Date

\_\_\_\_\_  
Lei Wang

11/24/98

\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Hong Helena Zheng

\_\_\_\_\_  
Date

\_\_\_\_\_  
Chung-Kai Chow

STATE OF \_\_\_\_\_ )

) SS:

COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally appeared Joel Page, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally appeared Edwin De Angel, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally appeared Wai Laing Lee, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally appeared Lei Wang, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

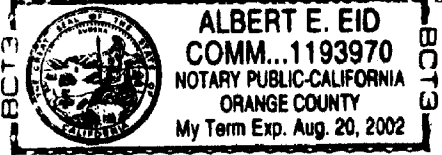
S E A L

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

STATE OF CA )  
 ) SS:  
COUNTY OF Orange )

On this N 24<sup>th</sup> day of NOV., 1998, before me personally appeared Hong Helena Zheng, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



S E A L

[Signature]  
\_\_\_\_\_  
Notary Public

My commission expires Aug. 20, 2002

STATE OF \_\_\_\_\_ )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally appeared Chung-Kai Chow, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_