## 12-09-1998



I.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

FORM PTO-1596

1-31-92

Docket No.: 0886-CS

100914360

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto: 1. Name of Conveying Party(ies): 2. Name and address of receiving party(ies): Joel PAGE, Edwin De ANGEL, Wai Laing LEE, Lei Name: CIRRUS LOGIC, INC. WANG, Hong Helena ZHENG, and Chung-Kai CHOW Address: 3100 West Warren Avenue Additional name(s) of conveying party(ies) attached? Yes 3. Nature of Conveyance: Fremont, California 94538 Merger Security Agreement Change of Name Other **Execution Date:** Additional name(s) & address(es) attached? Yes 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). B. Patent No(s). 09/154,241-Filed September 16, 1998 Additional numbers attached? Yes 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: 1 concerning document should be mailed: 7. Total fee (37 CFR 3.41) \$40.00 Name: CIRRUS LOGIC, INC. Internal Address: Enclosed Authorized to be charged to deposit account 3100 West Warren Avenue 8. Deposit account number: Street Address: 500417 CA Zip: 94538 City: Fremont State: 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 Date Total number of pages comprising cover sheet:

12/08/1998 SBURNS 00000116 500417 09154241

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

01 FC:581 40.00 CH 50246-041

**PATENT** REEL: 9617 FRAME: 0735

Docket No.: 0886-CS

## 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 <u>September 16, 1998</u>, and identified by United States Serial No. <u>09/154,241</u>;

AND WHEREAS, CIRRUS LOGIC, INC., a corporation of the State of <u>California</u> 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, reexaminations 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

Page 1/4 50246-041

PATENT REEL: 9617 FRAME: 0736

11/17/98	Doeln Ree
Date	Joel Page
11 - 17 - 98	Level carry
Date	Edwin-De Angel
11/19/98	Watas Ce
Date	Wai Laing Lee
N.4.	I of Woman
Date	Lei Wang
Date	Hong Helena Zheng
11/17/98	Land Tolland
Date	Chung-Kai Chow
STATE OF	)
COUNTY OF TRAVIS	) SS: )
On this 17 day of N	ed in and who executed the above instrument, and acknowledged to me that
to me known to be the person name he/she executed the same for the us	ed in and who executed the above instrument, and acknowledged to me that ses and purposes therein set forth.
PAULA HALLAHUHTA	Notary Public
MY COMMISSION EXPIRES March 30, 2000	Notary Public  My commission expires MARCH 30 2000
	way commission expires

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

STATE OF TEXAS	)
COUNTY OF TRAVIS	) SS: )
On this day of	november, 1997, before me personally appeared Edwin De rson named in and who executed the above instrument, and acknowledged to
Angel, to me known to be the pe me that he/she executed the same	rson named in and who executed the above instrument, and acknowledged to e for the uses and purposes therein set forth.
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	Notary Bublis
L PAULA HALLAHUHTA MY COMMISSION EXPIRES	Notary Public
March 30, 2000	My commission expires MARCH 30 2000
	,
STATE OF TEXAS	<b>\</b>
STATE OF TRAVIS	) SS:
COUNTY OF	)
On this \ \ \ \ \ day of _	NOVERIBER, 1978, before me personally appeared Wai Laing
Lee, to me known to be the perso	on named in and who executed the above instrument, and acknowledged to me r the uses and purposes therein set forth.
that he/she executed the same for	the uses and purposes therein set forth.
	July Philainth
PAULA HALLAHUHTA	Notary Public
MY COMMISSION EXPIRES March 30, 2000	My commission expires HXRCH 30, 2000

	) SS:	
COUNTY OF	)	
to me known to be the p	day of	ared Lei Wang, dged to me that
S E A L	Notary Public	
	My commission expires	
STATE OF	)	
COUNTY OF	)	
7hann to make anyon to	day of	almorriadeed to
me that he/she executed	the same for the uses and purposes therein set forth.	cknowledged to
me that he/she executed	Notary Public	cknowledged to
me that he/she executed	the same for the uses and purposes therein set forth.	
me that he/she executed	Notary Public  My commission expires	
SEAL  STATE OF	Notary Public  My commission expires	ared Chung-Kai

Docket No.: 0886-CS

## 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 <u>September 16, 1998</u>, and identified by United States Serial No. <u>09/154,241</u>;

AND WHEREAS, CIRRUS LOGIC, INC., a corporation of the State of <u>California</u> 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, reexaminations 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

Date		Joel Page
Date	<del></del>	Edwin De Angel
Date		Wai Laing Lee
11/19/98 Date		Wang Lii Lei Wang
	_	Hong Helena Zheng
Date		Chung-Kai Chow
STATE OF	,	
COUNTY OF		
On this day of to me known to be the person name	ed in and	, 19, before me personally appeared Joel Page, who executed the above instrument, and acknowledged to me that
he/she executed the same for the us	ses and p	ourposes therein set forth.
S E A L	Notar	y Public
	Му со	ommission expires

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

thereby.

STATE OF		
COUNTY OF	) SS: )	
On this Angel, to me known t me that he/she execut	_ day of to be the person named in an ed the same for the uses and	, 19, before me personally appeared Edwin Ded who executed the above instrument, and acknowledged to purposes therein set forth.
S E A L	Notary Publi My commissi	on expires
STATE OF	) ) SS: )	
		, 19, before me personally appeared Wai Laing
Lee, to me known to	be the person named in and w the same for the uses and pur	tho executed the above instrument, and acknowledged to me
SEAL	Notary Publi	c
	My commissi	on expires

STATE OF <u>  EXAS</u>	_)
COUNTY OF BRAZOS	) SS: )
On this 1946 day of No to me known to be the person named he/she executed the same for the use	1998, before me personally appeared Lei Wang, in and who executed the above instrument, and acknowledged to me that es and purposes therein set forth.
DEBRA L. FAUST NOTARY PUBLIC STATE OF TEXAS COMM. EXP. 02-20-2000	Debra Paust Notary Public  My commission expires 220-2000
STATE OF	_) ) SS:
COUNTY OF	,
Zheng, to me known to be the perso	, 19, before me personally appeared Hong Helena on named in and who executed the above instrument, and acknowledged to or the uses and purposes therein set forth.
SEAL	Notary Public
	My commission expires
STATE OF	) SS:
On this day of Chow, to me known to be the perso me that he/she executed the same for	, 19, before me personally appeared Chung-Kai on named in and who executed the above instrument, and acknowledged to or the uses and purposes therein set forth.
SEAL	Notary Public

Docket No.: 0886-CS

## **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,

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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, reexaminations 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

Date	Joel Page
Date	Edwin De Angel
Date	Wai Laing Lee
Date (1/24/98) Date	Lei Wang  Hong Helena Zheng
Date	Chung-Kai Chow
STATE OF	_) ) SS: )
On this day of to me known to be the person name he/she executed the same for the use	
S E A L	Notary Public
	My commission expires

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

thereby.

Page 2/4

STATE OF		
COUNTY OF	) SS: )	
On this	day of	, 19, before me personally appeared Edwin De who executed the above instrument, and acknowledged to
Angel, to me known to me that he/she executed	be the person named in and vi I the same for the uses and pu	who executed the above instrument, and acknowledged to
are that he one encertee	the same for the uses and pr	reposes therein set forth.
S E A L	Notary Public	
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On this	day of	, 19, before me personally appeared Wai Laing
Lee, to me known to be	the person named in and who e same for the uses and purpo	executed the above instrument, and acknowledged to me
SEAL	Notary Public	
	My commission	expires

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.  SEAL	STATE OF	)
On this day of	COUNTY OF	) SS: )
he/she executed the same for the uses and purposes therein set forth.    SEAL   Notary Public		
he/she executed the same for the uses and purposes therein set forth.    SEAL   Notary Public	On this day of	, 19, before me personally appeared Lei Wang,
SEAL  Notary Public  My commission expires  STATE OF	to me known to be the person name	d in and who executed the above instrument, and acknowledged to me that
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STATE OF	SEAL	Notary Public
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Zheng, to me known to be the person named in and who executed the above instrument, and acknowledged to me that I (cho executed the same for the uses and purposes therein set forth.  ALBERT E. EID  COMM 1193970  ORANGE COUNTY  My Term Exp. Aug. 20, 2002  S E A L  Notary Public  My commission expires  STATE 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	COUNTY OF Orange.	)
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ALBERT E. EID COMM193970 NOTARY PUBLIC-CALFORNIA ORANGE COUNTY My Term Exp. Aug. 20, 2002  S E A L  Notary Public  My commission expires  My commission expires  STATE 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	Zheng, to me known to be the person	on named in and who executed the above instrument, and acknowledged to
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S E A L  Notary Public  My commission expires  STATE OF  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	ORANGE COUNTY W	
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STATE OF	SEAL	Notary I ubite
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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.	On this day of	, 19 , before me personally appeared Chung-Kai
me that he/she executed the same for the uses and purposes therein set forth.	Chow, to me known to be the person	on named in and who executed the above instrument, and acknowledged to
	me that he/she executed the same f	or the uses and purposes therein set forth.
S E A L Notary Public	SFAL	Notary Public
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My commission expires		My commission expires

Page 4/4