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Conveying	Party(ies)		X Mark if additi	onal names of co	nveying parti	es attached _{Execution} Date Month Day Year
Name (line 1)	Graba, James Mark					12 19 2000
Name (line 2)		<i></i>				Execution Date
Second Party	Feyh, German S. O.					Month Day Year 10 16 2000
	Teyli, German S. O.					(<u></u>
Name (line 2)						
Receiving P				Mark if additio	nal names of	receiving parties attached
Name (line 1)	Cirrus Logic, Inc.		· · · · · · · · · · · · · · · · ·			is an assignment and the receiving party is not domiciled in the United
Name (line 2)						States, an appointment of a domestic representative is attached
Address (line 1)	4210 S. Industrial Dri	ve				(Designation must be a separate document from Assignment.)
Address (line 2)						Assignment
Address (line 3)	Austin		ΓXState/Cou	ntry	78744 Zip	Code
Domestic F	City Representative Name	and Add	dress e	nter for the first F	Receiving Part	ty only.
	Michael J. Setter					
Address (line 1) Duft, Graziano & For	est, F.C.				
Address (line 2	P.O. Box 270930					
Address (line 3						
Address (line		-5015				
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FORM PTO-1619B Expires 06/30/99 OMB 0651-0027	Page 2	U.S. Department of Commerce Patent and Trademark Office PATENT
Correspondent Name and Address	Area Code and Telephone Numbe	r (303) 379-1123
Name Michael J. Setter		
Address (line 1) Duft, Graziano & Forest, P.C.		
Address (line 2) P. O. Box 270930		
Address (line 3)		
Address (line 4) Louisville, CO 80027		
Pages Enter the total number of pa including any attachments.	ges of the attached conveyance doc	ument # 8
Application Number(s) or Patent Num Enter either the Patent Application Number or the F		if additional numbers attached
Patent Application Number(s) 09/698,421		ent Number(s)
only if a U.S. Application Number has not been assigned.	РСТ РСТ	
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Method of Payment: Enclo Deposit Account (Enter for payment by deposit account or if add	for Properties Listed (37 CFR 3.41): osed Deposit Account X litional fees can be charged to the account.) Deposit Account Number: Authorization to charge additional fees:	\$ 40.00 # 03-2028 Yes X No
attached copy is a true copy of the indicated herein.	elief, the foregoing information is tru original document. Charges to depo	ie and correct and any posit account are authorized, as $\frac{1/8/01}{0}$
Dan A. Shifrin, Reg. No. 34,473 Name of Person Signing	Signature	Date

FORM PTO- Expires 06/30/99 OMB 0651-0027		RDATION FORM CONTINUAT PATENTS C			U.S. Department of Commerce Patent and Trademark Office PATENT
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Name (line 2)			8000 1000 1000 1000 1000 1000 1000		States, an appointment of a domestic representative
Address (line 1)		<u></u>			is attached. (Designation must be a separate
					document from Assignment.)
Address (line 2)			•		Assignment.)
Address (line 3)	City		State/Country	Zip Co	ode
Name (line 1)					If document to be recorded is an assignment and the
Manie (mie i)					receiving party is not domiciled in the United
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Address (line 1)					attached. (Designation must be a separate document from
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Address (line 2)				/ 	
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Address (line 3)	City		State/Country Mark if additional nu	mbers attached	
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PATENT REEL: 011509 FRAME: 0597 ٦

Cirrus File Number: 0983-MS (DGF: 6172/009)

JOINT TO CORPORATE ASSIGNMENT

1.	WHEREAS, the undersigned, James Mark Graba	2.	German S. O. Feyh
1.			
3.	Hao Huang	4.	Louis Supino
(here	einafter termed "Inventors"), residents of		
1.	2823 Humboldt Circle, Longmont	2.	1272 Bear Mountain Ct., Boulder
3.	1944 Creole Dr., Austin	4.	3119 Bell Dr., Boulder
Res	pectively, Counties of		
1.	Boulder	2.	Boulder
3.		4.	Boulder
resp	ectively, States of		
1.	Colorado	2.	Colorado
3.	Texas	4.	Colorado

respectively, have invented certain new and useful improvements in:

SERVO CIRCUITRY FOR COUNTING TRACKS ON AN OPTICAL STORAGE MEDIUM

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



respectively; or

Said application having Application Number 09/698,421 and filed on the 27th day of October, 2000.

<u>X</u>

WHEREAS <u>CIRRUS LOGIC, INC.</u> (hereinafter termed "Assignee"), a corporation of <u>Delaware</u>, having a place of business at <u>3100 West Warren Avenue</u>, 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, compulsory licensing 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.

Cirrus File Number: 0983-MS (DGF: 6172/009)

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) James Mark Mark Traba State of (1)County of J on 12/19/00) INDA JUN _ before me, _ _, personally appeared James Mark Graba, 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. Signature German S. O. Feyh (2) ____ State of EXAS (2)County of TRAVIS _, personally appeared German S. O. On January S Feyh, 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 before me, 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. _ Signature Huang State of Tex AS (3) County of TRAVIS _____, personally appeared Hao Huang, Rystal J. Leve SQUE 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. Custal J. Cuesque CRYSTAL J. LEVESQUE MY COMMISSION EXPIRES April 15, 2003

Cirrus File Number: 0983-MS (DGF: 6172/009) (4) Šupino 6uis State of (4) County of On 21900 before me, IN , personally appeared Louis Supino, INI 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), on the entity upon behalf of which the person(s) acted, executed the instrument.

Signature

WITNESS my hand and official seal

Cirrus File Number: 0983-MS (DGF: 6172/009)

JOINT TO CORPORATE ASSIGNMENT

1.	WHEREAS, the undersigned, James Mark Graba	2.	German S. O. Feyh
3.	Hao Huang	4.	Louis Supino
(here	einafter termed "Inventors"), residents of	<u></u> .	
1.	2823 Humboldt Circle, Longmont	2.	1272 Bear Mountain Ct., Boulder
3.	1944 Creole Dr., Austin	4.	3119 Bell Dr., Boulder
Res	pectively, Counties of		
1.	Boulder	2.	Boulder
3.		4.	Boulder
resp	ectively, States of		
1.	Colorado	2.	Colorado
3.	Texas	4.	Colorado

respectively, have invented certain new and useful improvements in:

SERVO CIRCUITRY FOR COUNTING TRACKS ON AN OPTICAL STORAGE MEDIUM

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

	Ont	the		
1.		day of		, 2000
- 2.	16	day of	October	, 2000
3.		day of		, 2000
4.		day of		, 2000
resp	ective	ly; or		n Number/, and filed on the day of
	Sa	id applica , 20_	tion having Application	

PATENT REEL: 011509 FRAME: 0602

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WHEREAS <u>CIRRUS LOGIC, INC.</u> (hereinafter termed "Assignee"), a corporation of <u>Delaware</u>, having a place of business at <u>3100 West Warren Avenue</u>, <u>Fremont</u>, <u>California 94583</u>, 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 side 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)_			
			James Mark G	raba	
(1)	State of	_))			
	County of	_) ·			
	On before	me,		,	personally appeared <u>James Mark</u>) whose name(s) is/are subscribed
to the w	ithin instrument and acknowle	dged to me that he/she/th	ey executed the same	in his/her/their au) whose name(s) is/are subscribed thorized capacity(ies), and that by) acted, executed the instrument.
WITNE	SS my hand and official seal.				
			Signature		
		(2)_	German S. O. I	<u>S, </u>	~
(2)	State of Colorado	_)			
	County of Boulder) _)			
	before before thin instrument and acknowle their signature(s) on the instrum SS my hand and official seal. UBLC of OF COLOR			o be the person(s) in his/her/their au which the person(s	ersonally appeared <u>German S. O.</u> whose name(s) is/are subscribed thorized capacity(ies), and that by) acted, executed the instrument.
	SF COP	(2)			
MY COM J	MISSION EXPIRES	(3)	Hao Huang		
(3)	State of	_)) _)			appeared Hao Huang,
persor within signat	On before hally known to me (or proved to instrument and acknowledged to ure(s) on the instrument the pe	e me, me on the basis of satisf o me that he/she/they exec prson(s), or the entity upor	actory evidence) to be cuted the same in his/he n behalf of which the pe	the person(s) who er/their authorized c erson(s) acted, exe	, personally appeared <u>Hao Huang</u> , se name(s) is/are subscribed to the apacity(ies), and that by his/her/their ecuted the instrument.
WITN	ESS my hand and official seal		Signature		

Louis Supino

(4)	State of

County of _____

On _______, personally appeared <u>Louis Supino</u>, personally appeared <u>Louis Supino</u>, 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.

(4) _____

WITNESS my hand and official seal.

Signature