

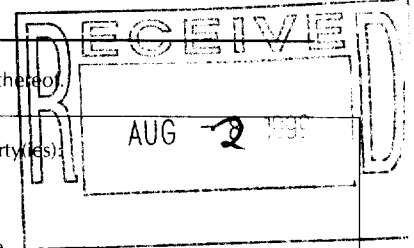
08-11-1999



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To the Honorable Commissioner of Patents and Tra.

ents or copy thereof



1. Name of conveying party(ies): 1) Douglas R. Holberg, 2) Sandra M. Johnson 3) Nadi R. Itani 4) Argos R. Cue Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: 1) 7/14/99; 2) 7/21/99, 3) 7/13/99; and 4) 7/13/99			
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) 09/283,112		B. Patent No.(s)	
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed: Sabath & Truong 111 North Market Street, Suite 815 San Jose, CA 95113		6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41):.....\$ <u>40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account	
		8. Deposit account number: <u>03-2028</u>	

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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.

Bobby K. Truong
Name of Person Signing

[Signature]
Signature
Total number of pages including cover sheet: 7

July 28, 1999
Date

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ASSIGNMENT

KNOW ALL MEN BY THESE PRESENTS, That Whereas we, **Douglas R. Holberg, Sandra M. Johnson, Nadi R. Itani and Argos R. Cue** have invented certain new and useful improvements in **CCD IMAGER ANALOG PROCESSOR SYSTEMS AND METHODS**, for which an application for Letters Patent of the United States of America has been executed; and

WHEREAS **CIRRUS LOGIC, INC.**, a corporation duly organized and existing under the laws of **California**, and having an address at **3100 WEST WARREN AVENUE, FREMONT, CALIFORNIA 94538**, is desirous of acquiring an interest therein and in the Letters Patent to be obtained therefor from the United States;

NOW THEREFORE, in consideration of the sum of one dollar (\$1.00) and other good and valuable considerations to me by **CIRRUS LOGIC, INC.**, the receipt whereof is hereby acknowledged, we do hereby sell, assign, transfer and set over unto **CIRRUS LOGIC, INC.**, its successors and assigns, the entire right, title and interest in, to and under the said application for United States Letters Patent, including all priority rights arising therefrom, all inventions therein disclosed, and any and all Letters Patent of the United States and of all other countries which may be granted for the said inventions, or any of them.

TO HAVE, HOLD and ENJOY the said inventions, the said Application, and the said Letters Patent to said **CIRRUS LOGIC, INC.**, its successors and assigns, to its and their own use and behoof to the full end of the term or terms for which the said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made.

And we do hereby authorize and request the Commissioner of Patents of the United States to issue any United States Letters Patent which may be granted on the said application, or any divisional, reissue or continuation applications, or for the said inventions, or any of them, to said **CIRRUS LOGIC, INC.**, its successors and assigns, as assignees of the entire right, title and interest therein and thereto.

And we do hereby, for ourselves and for our legal representatives, covenant and agree with **CIRRUS LOGIC, INC.**, its successors and assigns, that we have granted to others no

license to make, use or sell any of the said inventions, that my right, title and interest in the said inventions has not been encumbered, that we have good right and title to sell and assign the same, and that I will not execute any instrument in conflict herewith.

And we do hereby, for ourselves and for our legal representatives, further covenant and agree with **CIRRUS LOGIC, INC.**, its successors and assigns, that upon request we will, and they shall, execute divisional, reissue or continuation applications, amended specifications, or rightful oaths; communicate to **CIRRUS LOGIC, INC.**, its successors and assigns, any facts known to us relating to the said inventions or the history thereof; execute preliminary statements and testify in any interference proceedings; execute and deliver any application papers, assignments, or other instruments, and do all other acts which, in the opinion of counsel for **CIRRUS LOGIC, INC.**, may be necessary or convenient to secure the grant of Letters Patent to **CIRRUS LOGIC, INC.**, its successors and assigns, or its nominees, in the United States and in all other countries where **CIRRUS LOGIC, INC.**, may desire to have the said inventions, or any of them, patented, with specifications and claims in such form as shall be approved by counsel for **CIRRUS LOGIC, INC.**, and to vest and confirm in **CIRRUS LOGIC, INC.**, its successors and assigns, or its nominees, the full and complete legal and equitable title to all such Letters Patent, without further consideration than now paid but at the expense of **CIRRUS LOGIC, INC.**, its successors or assigns.

IN WITNESS WHEREOF, I have hereunto set our hand and seal on the date indicated below:

Date: 14 JULY 1999 Douglas R. Holberg
Douglas R. Holberg

STATE OF TEXAS)
)
) ss.

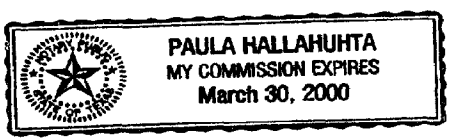
COUNTY OF TRAVIS)

On this 14 day of JULY in the year 1999, before me PAULA HALLAHUHTA, a Notary Public in and for said State, personally appeared DOUGLAS R. HOLBERG

- personally known to me -OR-
- proved to me on the basis of satisfactory evidence

to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature(s) on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and Official Seal.



Paula Hallahuenta
Signature of Notary
Notary Public of the State of TEXAS
Residing in AUSTIN
My Commission expires MARCH 30, 2000

IN WITNESS WHEREOF, I have hereunto set our hand and seal on the date indicated

below:

Date: 7-21-99

Sandra M. Johnson
Sandra M. Johnson

STATE OF TEXAS)

ss.

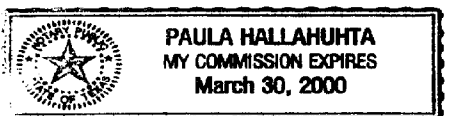
COUNTY OF TRAVIS)

On this 21 day of JULY in the year 1999, before me
PAULA HALLAHUHTA, a Notary Public in and for said State,
personally appeared SANDRA M. JOHNSON

- personally known to me -OR-
- proved to me on the basis of satisfactory evidence

to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature(s) on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and Official Seal.



Paula Hallahuhta
Signature of Notary
Notary Public of the State of TEXAS
Residing in AUSTIN
My Commission expires MARCH 30, 2000

IN WITNESS WHEREOF, I have hereunto set our hand and seal on the date indicated below:

Date: 7/13/99 Nadi R. Itani
Nadi R. Itani

STATE OF TEXAS)

ss.)

COUNTY OF TRAVIS)

On this 13 day of JULY in the year 1999, before me PAULAHALLAHUHTA, a Notary Public in and for said State, personally appeared NADI R. ITANI

- personally known to me -OR-
- proved to me on the basis of satisfactory evidence

to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature(s) on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and Official Seal.



Paula Hallahunta
 Signature of Notary
 Notary Public of the State of TEXAS
 Residing in AUSTIN
 My Commission expires MARCH 30, 2000

IN WITNESS WHEREOF, I have hereunto set our hand and seal on the date indicated below:

Date: 7/13/99
[Signature]
Argos R. Cue

STATE OF TEXAS)

ss.

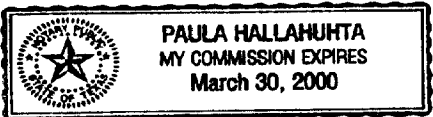
COUNTY OF TRAVIS)

On this 13 day of JULY in the year 1999, before me PAULA HALLAHUHTA, a Notary Public in and for said State, personally appeared ARGOS R. CUE

- personally known to me -OR-
- proved to me on the basis of satisfactory evidence

to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature(s) on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and Official Seal.



[Signature]
Signature of Notary
Notary Public of the State of TEXAS
Residing in AUSTIN
My Commission expires MARCH 30, 2000