

04-09-2002



To the Honorable Commissioner of Patents and Trademarks 102048784 Attached original documents or copy thereof.

1. Name of conveying party(ies):  
1) Venkitachalam, Anand 2) Hester, Dylan 3) Welser, Joe 4) Datar, Rajendra and 5) Subramoniam, Krishnan  
*3-15-02*  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):  
Name: CIRRUS LOGIC, INC.  
Internal Address: Intellectual Properties Dept.  
Street Address: 4210 South Industrial Blvd.  
City: Austin State: Texas ZIP: 78744  
Additional name(s) & address(es) attached?  Yes  No

Assignment executed on  
1) Venkitachalam, Anand on 8/28/2001, 2) Hester, Dylan on August 30, 2001, 3) Welser, Joe on 8/30/2001, 4) Datar, Rajendra on 8/28/2001 and 5) Subramoniam, Krishnan on 8/28/2001

4. Application number(s) or patent number(s): 09/944,738 filed August 31, 2001  
If this document is being filed together with a new application, the execution date of this application is:  
A. Patent Application No.(s) 09/944,738 B. Patent No.(s) x  
Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: James J. Murphy, Esq.  
Internal Address: 5400 Renaissance Tower  
Street Address: 1201 Elm  
City: Dallas State: Texas ZIP: 75270

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: 23 2426 of Winstead Sechrest & Minick L.P.  
(Attach duplicate copy of this page if paying by deposit account)

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.*

James J. Murphy, Esq. *James J. Murphy* March 18, 2002  
Name of Person Signing Signature Date  
Total number of pages comprising cover sheet, attachments, and document: 67

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

2836- P170US

01-16-2002  
101948846

To the Honorable Commissioner of Patent original documents or copy thereof.

1. Name of conveying party(ies):  
1) Venkitachalam, 2) Hester, 3) Welser, 4) Datar and 5) Subramoniam  
Additional name(s) of conveying party(ies) attached?  Yes  No  
Assignment executed on  
1) Venkitachalam on 8/28/2001, 2) Hester on August 30, 2001, 3) Welser on 8/30/2001, 4) Datar on 8/28/2001 and 5) Subramoniam on 8/28/2001

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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.

James J. Murphy, Esq. Signature Date November 30, 2001  
Name of Person Signing Signature Date  
Total number of pages comprising cover sheet, attachments, and document: \$+9

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

2836- P170US

**JOINT CORPORATE ASSIGNMENT**

WHEREAS, the undersigned,

1. VENKITACHALAM, Anand, resident of D23 Sundar Nagari, 308, Somwar Peth, Pune 411001 INDIA;
2. DYLAN, Hester, resident of 4210 South Industrial Drive, Austin, Travis County, Texas 78744;
- 3) WELSER, Joe, resident of 1670 Highway 304, Smithville, \_\_\_\_\_ County, Texas 78957;
4. DATAR, Rajendra, resident of Flat 16, Sona Gardens Jaishankar Societ6y, Sahakamagar, Pune, INDIA 411 009; and
5. SUBRAMONIAM, Krishnan, resident of 2109 Rodeo Drive, Austin, Travis County, Texas 78727; and have invented certain new and useful improvements in:

**VARIABLE DUTY CYCLE RESAMPLING CIRCUITS AND METHODS  
AND SAMPLE RATE CONVERTERS USING THE SAME**

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

- xx On the 1. 28th day of August, 2001;
2. 30th day of August, 2001;
3. 30th day of August, 2001;
4. 28th day of August, 2001; and
5. 28th day of August, 2001.

\_\_\_\_\_ Said application having Application Number \_\_\_\_/\_\_\_\_\_ and filed on the \_ day of \_\_\_\_\_, 2000.

WHEREAS CIRRUS LOGIC, INC. (hereinafter termed "Assignee"), a corporation of DELAWARE, having a place of business at 4210 South Industrial Boulevard, Austin Texas 78744, 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 before the Notary Public as given below.

(1) Anand VENKITACHALAM

(1) State of INDIA  
Province of Pune

§  
§  
§

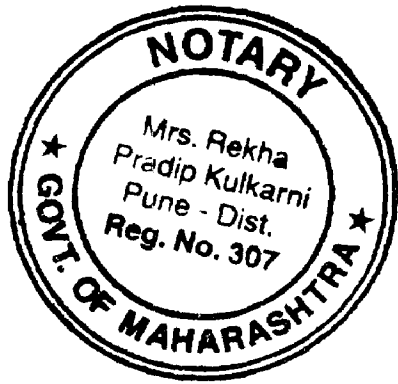
Before me, Mrs Rekha Kulkarni, a notary public, on this day personally appeared Anand Venkitachalam, known to me to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same for the purposes and considerations therein expressed.

Given under my hand and seal on the 28 day of August, 2001.

*RP Kulk*  
28/8/01

Notary Public Signature

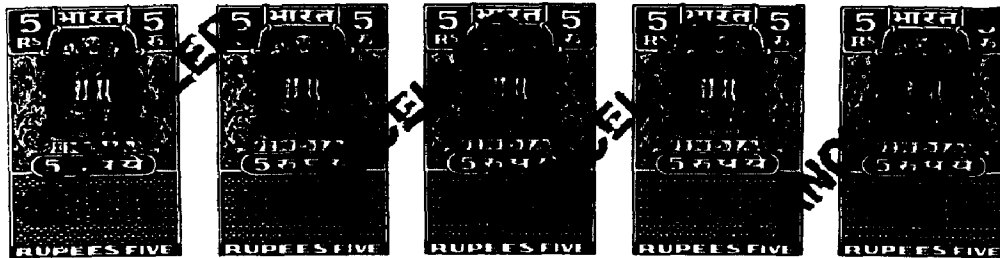
Notary Public Printed Name



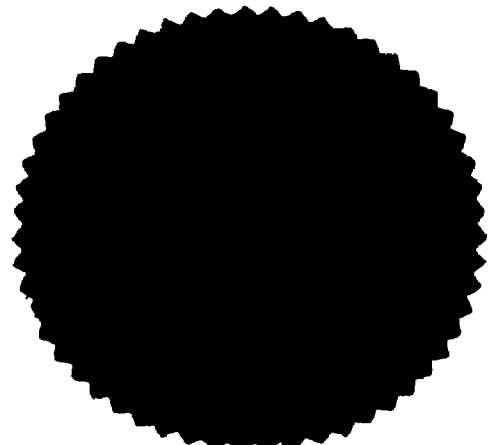
**BEFORE ME**

*RP Kulk*  
28/8/01

**Mrs. REKHA P. KULKARNI**  
NOTARY, STATE OF MAHARASHTRA  
PUNE.



**Noted and Registered  
at Serial Number:**  
C-1405

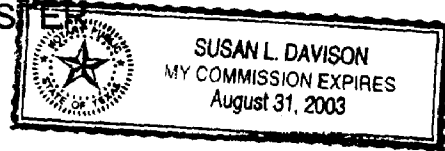


(2) *Dylan Hester*  
Dylan HESTER

(3) State of Texas

§  
§  
§

Travis County



Before me, *Susan Davison*, a notary public, on this day personally appeared *Dylan Hester*, known to me 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 for the purposes and considerations therein expressed.

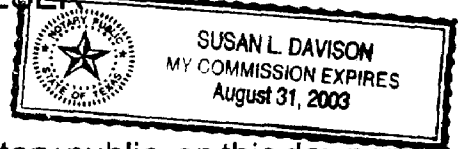
Given under my hand and seal on the *30* day of *August*, 2001.

*Susan L. Davison*  
Notary Public Signature

SUSAN L. DAVISON  
Notary Public Printed Name

(3) State of Texas     §  
                                  §  
Travis County       §

(3) Joe Welser  
Joe WELSER

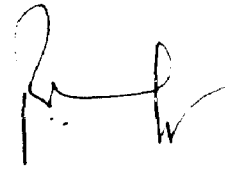


Before me, Susan Davison, a notary public, on this day personally appeared Joe Welser, known to me to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same for the purposes and considerations therein expressed.

Given under my hand and seal on the 30 day of August, 2001.

Susan L. Davison  
Notary Public Signature  
SUSAN L. DAVISON  
Notary Public Printed Name





(4) \_\_\_\_\_  
Rajendra DATAR

(3) State of INDIA     §  
                              §  
Pune District       §

Before me, MRS. REKHA KULKARNI, a notary public, on this day personally appeared Rajendra Datar, known to me 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 for the purposes and considerations therein expressed.

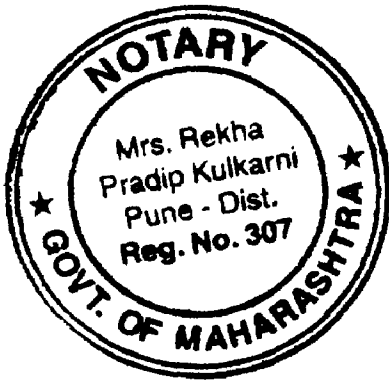
Given under my hand and seal on the 28 day of Aug, 2001.

*RP Kulkarni*  
28/8/01

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

MRS. REKHA KULKARNI

\_\_\_\_\_  
Notary Public Printed Name



**BEFORE ME**

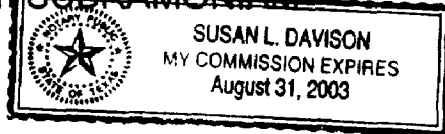
*RP Kulkarni*  
28/8/01

Mrs. REKHA P. KULKARNI  
NOTARY, STATE OF MAHARASHTRA  
PUNJ.

**Noted and Registered**  
at Serial Number C-1405

(4) State of Texas §  
Travis County §

(5) Krishnan  
Krishnan SUBRAMONIAM



Before me, Susan Davison, a notary public, on this day personally appeared R. Subramanian known to me 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 for the purposes and considerations therein expressed.

Given under my hand and seal on the 30 day of August, 2001.

Susan L. Davison  
Notary Public Signature  
Susan L. Davison  
Notary Public Printed Name

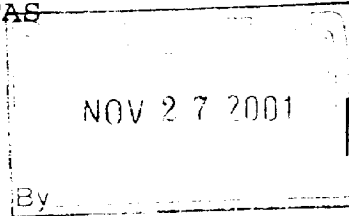


20-207810000  
**UNITED STATES DEPARTMENT OF COMMERCE**  
**Patent and Trademark Office**  
 ASSISTANT SECRETARY AND COMMISSIONER  
 OF PATENTS AND TRADEMARKS  
 Washington, D.C. 20231

NOVEMBER 16, 2001

JAMES J. MURPHY  
 5400 RENAISSANCE TOWER  
 1201 ELM  
 DALLAS, TX 75270

PTAS



**DOCKETED**

*11/28/01*



\*101895607A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
 NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/31/2001

REEL/FRAME: 012157/0097  
 NUMBER OF PAGES: 9

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
 VENKITACHALAM

DOC DATE: 08/28/2001

ASSIGNOR:  
 HESTER

DOC DATE: 08/03/2001

ASSIGNOR:  
 WELSER

DOC DATE: 08/03/2001

ASSIGNOR:  
 DATAR

DOC DATE: 08/14/2001

ASSIGNOR:  
 SUBRAMONIUM

DOC DATE: 08/28/2001

ASSIGNEE:  
 CIRRUS LOGIC, INC.  
 4210 SOUTH INDUSTRIAL BLVD.  
 INTELLECTUAL PROPERTIES DEPT.  
 AUSTIN, TEXAS 78744

SERIAL NUMBER: 09944738  
PATENT NUMBER:

FILING DATE: 08/31/2001 ,  
ISSUE DATE:

ANTIONE ROYALL, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

ATTORNEY DOCKET NO  
1165-CA (P170US)

PATENT  
09/944,738

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Venkitachalam  
Serial No.: 09/944,738  
Filed: 08/31/ 2001  
Title: VARIABLE DUTY CYCLE RESAMPLING CIRCUITS AND METHODS  
AND SAMPLE RATE CONVERTERS USING THE SAME  
Confirmation No.: 2013  
Examiner: unassigned

Assistant Director for Patents  
Box Assignment, CG-4  
1213 Jefferson Davis Highway, Suite 3200  
Washington, D.C. 20231

**Certificate of First Class Mailing**

This document is being deposited with the U.S. Postal Service as U.S. First Class Mail with sufficient postage, in an envelope addressed to the Commissioner for Patents, Washington, D.C. 20231, on the date indicated below.

Nov 30, 2001  
Date

[Signature]  
Signature

Nov 30, 2001  
Date

**REQUEST FOR CORRECTION OF RECORDATION OF ASSIGNMENT**

Attached is a copy of the official Notice of Recordation of Assignment Document received from the PTO in the above-referenced application.

Applicant respectfully requests correction of 1) the second inventor's assignment date to August **30**, 2001 and 2) the third inventors assignment date to August **30**, 2001. Each is highlighted on the Assignment document and the Assignment Cover Sheet attached for your convenience. A fully executed Corrected Assignment Recordation Form Cover Sheet has been attached for your convenience.

It is believed that no additional fee is due. However, If this is incorrect, the Commissioner is hereby authorized to charge any fees which may be required by this paper to Deposit Account No. 23-2426. Also the Director is authorized to credit any

**PATENT**  
**REEL: 012777 FRAME: 0811**


ATTORNEY DOCKET NO  
1165-CA (P170US)

PATENT  
09/944,738

over payment or charge any additional fees which may be required to Winstead's  
Deposit Account No. 23-2426.

Respectfully submitted,

WINSTEAD SECHREST & MINICK  
Attorneys for Applicant

By:   
James J. Murphy  
Reg. No. 34,503

5400 Renaissance Tower  
1201 Elm Street  
Dallas, Texas 75270  
(214) 745-5374  
Date: November 30, 2001

Attorney's Docket: 2836- P170US

DALLAS\_1\3575382\1  
11/30/2001 - 2836-P170US

11-15-2001

OMB No 0651-0011 (exp. 4/94)



101895607

To the Honorable Commissioner of Patents

Original documents or copy thereof.

1. Name of conveying party(ies):  
1) Venkitachalam, 2) Hester, 3) Welser, 4) Datar and 5) Subramoniumam  
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Assignment executed on  
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JC821 U.S. PTO  
09/944738  
08/31/01

4. Application number(s) or patent number(s):  
If this document is being filed together with a new application, the execution date of this application is: Aug 28, 2001  
A. Patent Application No.(s) 17/744738 B. Patent No.(s) x  
Additional numbers attached?  Yes  No

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James J. Murphy, Esq. James J. Murphy Aug. 31, 2001  
Name of Person Signing Signature Date

Total number of pages comprising cover sheet, attachments, and document: \$+

09/11/2001 TDIAZ1 00000003 09944738  
01 FC:581 40.00 00

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Washington, D.C. 20231

2836- P170US