

12-13-2002



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original documents or copy thereof.

To the Honorable Commissioner of Patent

1. Name of conveying party(ies):

- (a) John L. Melanson
- (b) Jack B. Andersen
- (c)

Additional name(s) of conveying party(ies) attached?

Yes  No

MRD 12/9/02

2. Name and address of receiving party(ies):

Name: Cirrus Logic, Inc.  
 Street Address: 2901 Via Fortuna  
 City: Austin State: Texas Zip: 78746  
 Country: USA

3. Nature of Conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Date: December 6, 2002

Name and address of receiving party(ies):

Name: \_\_\_\_\_  
 Street Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Country: \_\_\_\_\_

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: December 6, 2002

A. Patent Application No.(s) - 10314804  
 Title: Modulation of a Digital Input Signal Using Multiple Digital Signal Modulators

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Kent B. Chambers  
 Internal Address: HAMILTON & TERRILE, LLP  
 Street Address: P.O. BOX 203518  
 City AUSTIN State TX ZIP 78720

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): ..... \$40.00  
 Check for Fee Enclosed  
 Charge Deposit Account 502264 for any additional fees required for this conveyance and credit deposit account 502264 any amounts overpaid

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8. 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.

Kent B. Chambers (Reg. No. 38,839)  
 Name of Person Signing

[Signature]  
 Signature

DEC. 9, 2002  
 Date

Total number of pages comprising cover sheet: 1

11011 U.S. PTO  
 10/31/02  
 12/09/02

**ASSIGNMENT**


For good and valuable consideration, receipt of which is hereby acknowledged, we

John L. Melanson of Austin, Texas  
Jack B. Andersen of Austin, Texas

hereby sell, assign and transfer to Cirrus Logic, Inc., a Delaware corporation, having a place of business at 2901 Via Fortuna, Austin, Texas 78746, its successors and assigns, the entire right, title and interest throughout the world in our invention in:

**MODULATION OF A DIGITAL INPUT SIGNAL  
USING MULTIPLE DIGITAL SIGNAL MODULATORS**

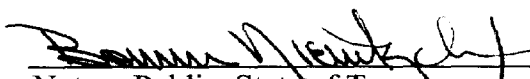
for which we have executed a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications. We authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us. We agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries. We request the Commissioner of Patents and Trademarks to issue all patents granted for said invention to the above-named assignee, its successors and assigns.

  
\_\_\_\_\_  
John L. Melanson

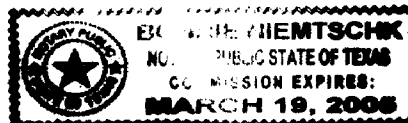
Date: 6 Dec 2002

STATE OF TEXAS           §  
                                      §  
COUNTY OF TRAVIS      §

Before me, on this day personally appeared John L. Melanson, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

  
\_\_\_\_\_  
Notary Public, State of Texas

My Commission Expires: 3-19-05



\_\_\_\_\_  
Jack B. Andersen

Date: \_\_\_\_\_

STATE OF TEXAS       §  
                                  §  
COUNTY OF TRAVIS   §

Before me, on this day personally appeared Jack B. Andersen, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary Public, State of Texas

My Commission Expires: \_\_\_\_\_

**ASSIGNMENT**

For good and valuable consideration, receipt of which is hereby acknowledged, we

John L. Melanson	of	Austin, Texas
Jack B. Andersen	of	Austin, Texas

hereby sell, assign and transfer to Cirrus Logic, Inc., a Delaware corporation, having a place of business at 2901 Via Fortuna, Austin, Texas 78746, its successors and assigns, the entire right, title and interest throughout the world in our invention in:

**MODULATION OF A DIGITAL INPUT SIGNAL  
USING MULTIPLE DIGITAL SIGNAL MODULATORS**

for which we have executed a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications. We authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us. We agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries. We request the Commissioner of Patents and Trademarks to issue all patents granted for said invention to the above-named assignee, its successors and assigns.

\_\_\_\_\_  
John L. Melanson

Date: \_\_\_\_\_

STATE OF TEXAS           §  
                                      §  
COUNTY OF TRAVIS      §

Before me, on this day personally appeared John L. Melanson, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary Public, State of Texas

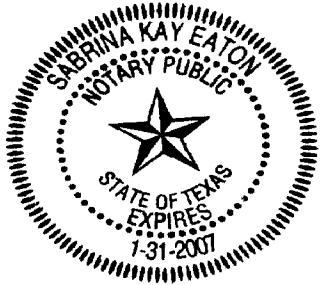
My Commission Expires: \_\_\_\_\_

Jack Andersen  
Jack B. Andersen

Date: 12/6/02

STATE OF TEXAS           §  
  §  
COUNTY OF TRAVIS       §

Before me, on this day personally appeared Jack B. Andersen, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed.



Sabrina Kay Eaton  
Notary Public, State of Texas

My Commission Expires: 1-31-2007