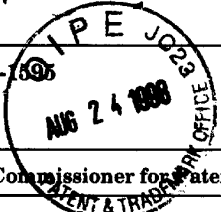


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FORM PTO-150

TI-23234



U.S. Department of Commerce  
Patent and Trademark Office

To the Ass't Commissioner for Patents.

100809921

... of original documents or copy thereof.

1. Name of conveying party(ies):

- 1) Tai-Yuen Chi
- 2) Steven D. Krueger
- 3) Jonathan H. Shiell

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

Name: TEXAS INSTRUMENTS INCORPORATED  
 Address: P.O. Box 655474, MS 3999  
 City: Dallas  
 State: TX Zip: 75265

Additional name(s) & address(es) attached?  Yes  No

3. Nature of Conveyance:

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

Execution Date: March 31, 1998 and April 9, 1998

4. Application number(s) or patent number(s).

This document is being filed together with a new application.

Execution date of the application: October 29, 1998; October 30, 1996; October 31, 1996

Title: Configurable Expansion Bus Controller in a Microprocessor-Based System

Docket No: TI-23234

A. Patent Application No.(s)  
S.N. 08/961,789

B. Patent No.(s)  
X,XXX,XXX

Additional numbers attached?  Yes  No

Additional numbers attached?  Yes  No

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

Name: Robert D. Marshall, Jr.  
 Texas Instruments Incorporated  
 Address: P.O. Box 655474, MS 3999  
 City: Dallas  
 State: TX Zip: 75265

6. Number of applications and patents involved:     (1)    

7. Amount of fee enclosed or authorized to be charged: \$40

8. Deposit Account No: 20-0668 (No duplicate copy is needed).

09/01/1998 TTOM11 00000012 200668 08961789

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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.*

August 29, 1998  
Date

Robert D. Marshall, Jr.  
Robert D. Marshall, Jr., Reg. No. 28,527

Total Number of Pages Including Cover Sheet, Attachments and Document:   2

**ASSIGNMENT**

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed by me on the date set forth below; and

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with its principal office at 7839 Churchill Way, MS 3999, Dallas, Texas 75251, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the said TEXAS INSTRUMENTS INCORPORATED, as assignee of my entire right, title and interest.

I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

TITLE OF INVENTION	CONFIGURABLE EXPANSION BUS CONTROLLER IN A MICROPROCESSOR-BASED SYSTEM		
SIGNATURE OF INVENTOR AND NAME	Tai-Yuen Chan <i>Tai-Yuen Chan</i>	Steven D. Krueger <i>Steven D. Krueger</i>	Jonathan H. Shiell <i>Jonathan H. Shiell</i>
DATE	4/9/98	4/9/98	3/31/98
RESIDENCE (City, County, State)	1420 Quanah Court, Allen, Collin County, Texas 75013	6449 Norway Road, Dallas, Dallas County, Texas 75230	4300 Longfellow Drive, Plano, Collin County, Texas 75093
DATE APPLICATION EXECUTED	4/9/98	4/9/98	3/31/98

After recording return Assignment to:

Robert D. Marshall, Jr.  
 Texas Instruments Incorporated  
 P.O. Box 655474, MS 3999, Dallas, Texas 75265