

01-10-2002



FORM PTO-1595

U.S. Department of Commerce  
Patent and Trademark Office

Docket Number: TI-33162

101939965

To the Ass't Commissioner for Patents. Please record the attached original document and a copy thereof.

1. Name of conveying party(ies):

Tod David Wolf  
Alan Gatherer

10-26-01

Additional names(s) attached? Yes  No

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

Name: Texas Instruments Incorporated

Address: 7839 Churchill Way, M/S 3999

City: Dallas, Texas 75251

Country: United States of America

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

J1017 U.S. PTO  
10/033110

10/26/01

3. Nature of Conveyance:

Assignment  Merger  
 Security Agreement  Change of Name  
 Other

Execution Date October 22, 2001

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

10,033,110

This document is being filed together with a new application.

Execution date of the application: October 22, 2001

Title: USING QUADRANT SHIFTING TO FACILITATE BINARY ARITHMETIC WITH TWO'S  
COMPLEMENT OPERANDS

A. Patent Application No.(s)

S.N.

Additional number attached? Yes  No

B. Patent No.(s)

Additional numbers attached? Yes  No

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

Ronald O. Neerings  
Texas Instruments Incorporated  
P.O. Box 655474, M/S 3999  
Dallas, TX 75265  
972-917-5299

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

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.

Scott B. Stahl, Reg. No. 33,795

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

01/09/2002 AMMED1 00000047 200668 10033110

01 FC:581 40.00 CH

3023127v1

PATENT  
REEL: 012424 FRAME: 0816

# 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 on the date set forth below; and

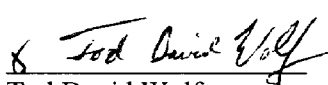
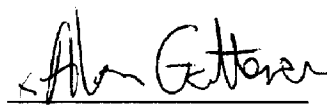
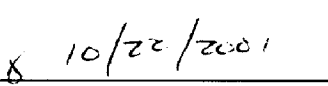
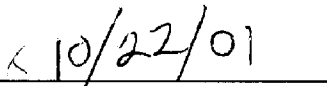
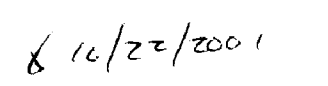
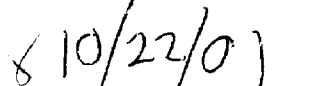
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with its principal office at 7839 Churchill Way, M.S. 3999, Dallas, TX 75251, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said 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 hand and seal this day and year;

TITLE OF INVENTION	USING QUADRANT SHIFTING TO FACILITATE BINARY ARITHMETIC WITH TWO'S COMPLEMENT OPERANDS		
SIGNATURE OF INVENTOR AND NAME	(1)  Tod David Wolf	 Alan Gatherer	
DATE			
RESIDENCE (City, County, State)	Richardson, Dallas, Texas	Richardson, Collin, Texas	
DATE APPLICATION EXECUTED			

After recording return Assignment to:

Ronald O. Neerings  
Texas Instruments Incorporated  
P. O. Box 655474, M/S 3999  
Dallas, TX 75265