

FORM PTO 1595
1-31-92

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office



102149482

Attached original documents or copy thereof.

To the Honorable Commissioner

1. Name and Address of Conveying Party(ies):

Keith (nmi) Balmer
6 Salcombe Close
Bedford, Bedfordshire County,
England, UK MK40 3BA

Citizenship - United Kingdom

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

Yes No

06/14/02

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

Name: TEXAS INSTRUMENTS
INCORPORATED

Internal Address: Legal Department
P.O. Box 655474, M/S 3999

Street Address: 7839 Churchill Way, M/S 3999

City: Dallas
Texas Zip: 75251

State:

11046 U.S. PTO
10/172221
06/14/02

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other

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

Execution Date: 06/10/02; 06/08/02; 06/13/02

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: 06/10/02

A. Patent Application No.(s):

10/172221

B. Patent No.(s):

Additional Numbers Yes No

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

Name: Robert D. Marshall, Jr.
Customer Number 23494
Internal Address: TEXAS INSTRUMENTS INCORPORATED
Street Address: 7839 Churchill Way, M/S 3999
City: Dallas
State: Texas Zip: 75251

6. Total number of application and patents involved: One

7. Total Fee (37C.F.R. 3.41): \$40.00

Enclosed
 Authorized to be charged to deposit account

8. Deposit Account Number:
No. 20-0668 of Texas Instruments Incorporated
(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.

Thomas J. Frame
Name of Person Signing

Signature

Thomas J. Frame

June 14, 2002
Date

Total number of pages including cover sheet

4

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

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Mail documents to be recorded with required cover sheet information:

07/08/2002 LMUELLER 00000103 200668 10172221
01 FC:581 40.00 CH

Commissioner for Patents and Trademarks
Box Assignments
Washington, D.C. 20231

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FORM PTO-1595
ATTACHMENT

1. Name and Address of Conveying Party(ies) - Continued - ALL INDIVIDUALS

Karl M. Guttag
6425 Rockbluff Circle
Plano, Collin County, TX 75024
Individual Citizenship: United States of America
Date Assignment executed: June 8, 2002
Date Specification executed: June 8, 2002

Amarjit Singh Bhandal
Maybank, Malabar Fields
Daventry, Northants County,
England, UK NN11 4DP
Citizenship - Britain
Date Assignment executed: June 13, 2002
Date Specification executed: June 13, 2002



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



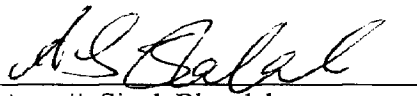
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, having a place of business at 7839 Churchill Way, MS 3999, Dallas, Texas 75251, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the 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 and 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 to issue all patents for said invention, or patents 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	SYSTEM AND METHOD FOR PROCESSING DATA USING A MULTIPLEXING ARCHITECTURE		
Signature of Inventor and Name	 Keith (nmi) Balmer	 Karl M. Gutttag	 Amarjit Singh Bhandal
Date	10 th June 2002		13 th June 2002
Residence (City, State & County)	6 Salcombe Close Bedford England, UK MK40 3BA	6425 Rockbluff Circle Plano, TX 75024	Maybank, Malabar Fields Daventry England, UK NN11 4DP
Date Application Executed	10 th June 2002		13 th June 2002

After recording, return Assignment to:
Robert D. Marshall, Jr., Esq.
Texas Instruments Incorporated
P. O. Box 655474, M/S 3999
Dallas, Texas 75265

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

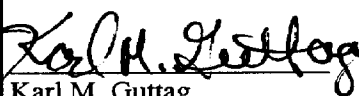
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, having a place of business at 7839 Churchill Way, MS 3999, Dallas, Texas 75251, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the 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 and 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 to issue all patents for said invention, or patents 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.

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

Title of Invention	SYSTEM AND METHOD FOR PROCESSING DATA USING A MULTIPLEXING ARCHITECTURE		
Signature of Inventor and Name	<u>Keith (nmi) Balmer</u>	 Karl M. Guttag	<u>Amarjit Singh Bhandal</u>
Date		6/8/2002	
Residence (City, State & County)	6 Salcombe Close Bedford England, UK MK40 3BA	6425 Rockbluff Circle Plano, TX 75024	Maybank, Malabar Fields Daventry England, UK NN11 4DP
Date Application Executed		6/8/2002	

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