

12-20-2001

FORM PTO-1595

TI-30113

11/8/01



101920486

U.S. Department of Commerce  
Patent and Trademark Office

To the Ass't Commissioner for Patents. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

- 1) Jay B. Reimer (8/24/01)
- 2) Tai H. Nguyen (8/24/01)
- 3) Yi Luo (8/24/01)
- 4) Glenn H. Hopkins (8/24/01)
- 5) Dan K. Bui (8/24/01)
- 6) Kevin A. McGonagle (8/23/01)

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 \_\_\_X\_\_\_ No

jc997 U.S. PTO

10/008515

11/08/01

3. Nature of Conveyance:

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

Execution Date: August 23 and 24, 2001

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

This document is being filed together with a new application.

Execution date of the application: August 23 and 24, 2001

Title: **Multicore DSP Device Having Shared Program Memory With Conditional Write Protection**

10/008515

Docket No: TI-30113

A. Patent Application No.(s)  
S.N.

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

Additional numbers attached? \_\_\_ Yes \_\_\_X\_\_\_ No

Additional numbers attached? \_\_\_ Yes \_\_\_X\_\_\_ 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).

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.*

November 8, 2001

*Robert D. Marshall, Jr.*

Robert D. Marshall, Jr., #28,527

Date

Total Number of Pages Including Cover Sheet, Attachments and Document: \_\_\_5\_\_\_

12/19/2001 GTDN11 00000088 200668 10008515  
 01 FC:581 40.00 CH

PATENT  
REEL: 012371 FRAME: 0325

**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

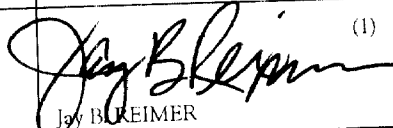
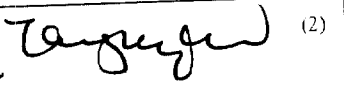

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with its principal office at P.O. Box 655474, MS 3999, Dallas, Texas 75265, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said 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 Ass't Commissioner for Patents 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              | MULTICORE DSP DEVICE HAVING SHARED PROGRAM MEMORY WITH CONDITIONAL WRITE PROTECTION                      |                                                                                                           |                                                                                                     |
|---------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| SIGNATURE OF INVENTOR AND NAME  | <br>Jay B. REIMER (1) | <br>Tai H. NGUYEN (2) | <br>Yi LUO (3) |
| DATE                            | 8/24/01                                                                                                  | 8/24/2001                                                                                                 | 8/24/2001                                                                                           |
| RESIDENCE (City, County, State) | Houston, Harris, Texas                                                                                   | Houston, Harris, Texas                                                                                    | Fort Bend<br>Stafford, Harris, Texas<br><i>Yi</i>                                                   |
| DATE APPLICATION EXECUTED       | 8/24/01                                                                                                  | 8/24/2001                                                                                                 | 8/24/2001                                                                                           |

After recordation, please return Assignment to:  
 Robert D. Marshall, Jr.  
 Texas Instruments Incorporated  
 P.O. Box 655474, MS 3999  
 Dallas, TX 75265

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

|                                 |                                                                                     |                             |                                                        |
|---------------------------------|-------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------|
| TITLE OF INVENTION              | MULTICORE DSP DEVICE HAVING SHARED PROGRAM MEMORY WITH CONDITIONAL WRITE PROTECTION |                             |                                                        |
| SIGNATURE OF INVENTOR AND NAME  | <i>H. Glenn Hopkins</i> (4)<br>Harland Glenn HOPKINS                                | (5)<br>Dan K. BUI           | (6)<br><i>Kevin A. McGonagle</i><br>Kevin A. McGONAGLE |
| DATE                            | 8/24/01                                                                             |                             | 8/23/01                                                |
| RESIDENCE (City, County, State) | Missouri City, Fort Bend, Texas                                                     | Sugarland, Fort Bend, Texas | Sugarland, Fort Bend, Texas                            |
| DATE APPLICATION EXECUTED       | <i>H. Glenn Hopkins</i><br>8/24/01                                                  |                             | 8/23/01                                                |

|                                 |                     |                     |                     |
|---------------------------------|---------------------|---------------------|---------------------|
| TITLE OF INVENTION              | XXX                 |                     |                     |
| SIGNATURE OF INVENTOR AND NAME  | (7)<br>XXX          | (8)<br>XXX          | (9)<br>XXX          |
| DATE                            |                     |                     |                     |
| RESIDENCE (City, County, State) | City, County, State | City, County, State | City, County, State |
| DATE APPLICATION EXECUTED       |                     |                     |                     |

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**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 P.O. Box 655474, MS 3999, Dallas, Texas 75265, 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 Ass't Commissioner for Patents 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.


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| TITLE OF INVENTION              | MULTICORE DSP DEVICE HAVING SHARED PROGRAM MEMORY WITH CONDITIONAL WRITE PROTECTION |                        |                         |
|---------------------------------|-------------------------------------------------------------------------------------|------------------------|-------------------------|
|                                 | (1)                                                                                 | (2)                    | (3)                     |
| SIGNATURE OF INVENTOR AND NAME  | Jay B REIMER                                                                        | Tai H. NGUYEN          | YI LUO                  |
| DATE                            |                                                                                     |                        |                         |
| RESIDENCE (City, County, State) | Houston, Harris, Texas                                                              | Houston, Harris, Texas | Stafford, Harris, Texas |
| DATE APPLICATION EXECUTED       |                                                                                     |                        |                         |

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| TITLE OF INVENTION              | MULTICORE DSP DEVICE HAVING SHARED PROGRAM MEMORY WITH CONDITIONAL WRITE PROTECTION |                                                                                                         |                             |
| SIGNATURE OF INVENTOR AND NAME  | (4)<br>Harland Glenn HOPKINS                                                        | (5)<br><br>Dan K. BUI | (6)<br>Kevin A. McGONAGLE   |
| DATE                            |                                                                                     | 8/24/01                                                                                                 |                             |
| RESIDENCE (City, County, State) | Missouri City, Fort Bend, Texas                                                     | Sugarland, Fort Bend, Texas                                                                             | Sugarland, Fort Bend, Texas |
| DATE APPLICATION EXECUTED       |                                                                                     | 8/24/01                                                                                                 |                             |

|                                 |                     |                     |                     |
|---------------------------------|---------------------|---------------------|---------------------|
| TITLE OF INVENTION              | XXX                 |                     |                     |
| SIGNATURE OF INVENTOR AND NAME  | (7)<br>XXX          | (8)<br>XXX          | (9)<br>XXX          |
| DATE                            |                     |                     |                     |
| RESIDENCE (City, County, State) | City, County, State | City, County, State | City, County, State |
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