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OMB No. 0651-0027 (exp. 6/30/2005)

102655060

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

- 1. Zhenguo GU
- 2. Jean-Pierre GIACALONE
- 3. Alexandra Raphaele BIREAU

1-15-04

2. Name and address of receiving party(ies)

Name: Texas Instruments Incorporated

Internal Address: MS 3999

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Street Address: P.O. Box 655474

City: Dallas State: TX Zip: 75265

Execution Date: 1. 01/08/04
2. 01/12/04
3. 01/14/04

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

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

10758663

- 1. 01/08/04
- 2. 01/12/04
- 3. 01/14/04

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) _____

B. Patent No.(s) _____

Additional numbers attached? Yes No

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

Name: Ron Neerings

Internal Address: Texas Instruments, Incorporated

Street Address: P.O. Box 655474, MS 3999

City: Dallas State: TX Zip: 75265

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

20-0668

DO NOT USE THIS SPACE

9. 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.

Jonathan M. Harris, Reg. No. 44,144

Name of Person Signing

Signature

January 15, 2004

Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

01/26/2004 LMJELLER 00000333 200668 10758663

01 FC:8021 40.00 DA

PATENT
REEL: 014908 FRAME: 0630

PTO 22390 10758663 011504

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

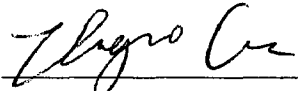
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with its principal office at P.O. Box 655474, MS 3999, Dallas, Texas 75265, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said 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	UNIFIED INTERLEAVER/DE-INTERLEAVER		
SIGNATURE OF INVENTOR AND NAME	 (1) Zhenguo GU	(2) Jean-Pierre GIACALONE	(3) Alexandra Raphaele BIREAU
DATE	Jan. 8, 2004		
RESIDENCE (City, County, State)	8300 Monica Circle Plano, Collin Texas 75025	484 Chemin Des Ecoliers 06140 Vence, France	Greenside, Panorama A 305 Avenue Saint Philippe 06410 Biot, France
DATE APPLICATION EXECUTED			

After recordation, please return Assignment to:

Ron Neerings
Texas Instruments Incorporated
P.O. Box 655474, MS 3999

ATTORNEY DOCKET NO.
TI.86701 (1992-06800)

PAGE 1 OF 1

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	UNIFIED INTERLEAVE/DE-INTERLEAVE		
SIGNATURE OF INVENTOR AND NAME	(1) Zhenguo GU	(2)  Jean-Pierre GIACALONE	(3) Alexandra Raphaële BIREAU
DATE			
RESIDENCE (City, County, State)	8300 Monica Circle Plano, Collin Texas 75025	484 Chemin Des Ecoles 06140 Venice, France	Greeniside, Panorama A 305 Avenue Saint Philippe 06410 Biot, France
DATE APPLICATION EXECUTED		14/01/04	

After recordation, please return Assignment to:
Ron Neerings
Texas Instruments Incorporated
P.O. Box 655474, MS 3999
Dallas, TX 75265

117346.01/1992.06800

ATTORNEY DOCKET NO.

TI-35761 (1962-06800)

PAGE 1 OF 1

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

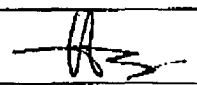
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with its principal office at P.O. Box 655474, MS 3999, Dallas, Texas 75265, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said 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.

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

TITLE OF INVENTION	UNIFIED INTERLEAVER/DE-INTERLEAVER		
SIGNATURE OF INVENTOR AND NAME	(1) Zhenguo GU	(2) Jean-Pierre GIACALONE	(3)  Alexandra Raphaële BIREAU
DATE			02/12/2004
RESIDENCE (City, County, State)	8300 Monica Circle Plano, Collin Texas 75025	484 Chemin Des Ecoliers 06140 Vence, France	Greenside, Panorama A 305 Avenue Saint Philippe 08410 Biot, France
DATE APPLICATION EXECUTED			

After recordation, please return Assignment to:

Ron Neerings
Texas Instruments Incorporated
P.O. Box 655474, MS 3999

117346.01/1962.06800

RECORDED: 01/15/2004

PATENT
REEL: 014908 FRAME: 0633