

06-15-2004

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T U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

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

1. Name of conveying party(ies): 1. John M. BACH 2. Rand B. CARAWAN 3. Hemant JOSHI 4. David A. THOMAS Additional name(s) of conveying party(ies) attached? Yes No

6484

2. Name and address of receiving party(ies) Name: Texas Instruments Incorporated Internal Address: MS 3999 Street Address: P.O. Box 655474 City: Dallas State: TX Zip: 75265 Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: 1. 06/03/04 2. 06/03/04 3. 06/04/04 4. 06/03/04

4. Application number(s) or patent number(s): 10861294 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

1. 06/03/04 2. 06/03/04 3. 06/04/04 4. 06/03/04

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Robert Marshall 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 [X] Authorized to be charged to deposit account

8. Deposit account number: 20-0668

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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

June 4, 2004 Date

Total number of pages including cover sheet, attachments, and documents: 4

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

06/14/2004 NGETACHE 00000099 200668 10861294

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22582 U.S. PTO 10/861294



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PATENT REEL: 015444 FRAME: 0093

ATTORNEY DOCKET NO.
TI-36562 (1962-13200)

PAGE 1 OF 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 on the date set forth below; and

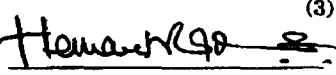
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with its principal office at P.O. Box 655474, MS 3999, Dallas, Texas 75265, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said 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	DETERMINING FEASIBILITY OF IC EDITS		
SIGNATURE OF INVENTOR AND NAME	(1) <hr/> John M. BACH	(2) <hr/> Rand B. CARAWAN	(3)  Hemant R. JOSHI
DATE	04-June-2004		
RESIDENCE (City, County, State)	5827 Autumn Fall Court Sugar Land, Ft. Bend Texas 77479	11927 Valencia Street Stafford, Ft. Bend Texas 77477	1308 Newbury Lane Plano, Collin Texas 75025
DATE APPLICATION EXECUTED			

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

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

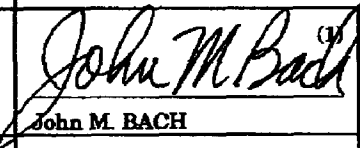
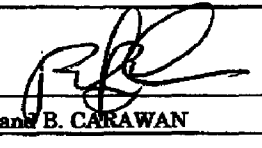
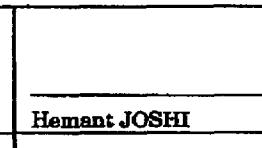
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I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents 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	DETERMINING FEASIBILITY OF IC EDITS		
SIGNATURE OF INVENTOR AND NAME	 John M. BACH	 Rand B. CARAWAN	 Hemant JOSHI
DATE			
RESIDENCE (City, County, State)	5827 Autumn Fall Court Sugar Land, Ft. Bend Texas 77479	11927 Valencia Street Stafford, Ft. Bend Texas 77477	1308 Newbury Lane Plano, Collin Texas 75025
DATE APPLICATION EXECUTED	03 June 2004	03 June 2004	

After recordation, please return Assignment to:

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

ATTORNEY DOCKET NO.
 TI-36562 (1962-13200)

PAGE 2 OF 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 on the date set forth below; and

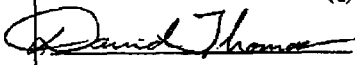
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TITLE OF INVENTION	DETERMINING FEASIBILITY OF IC EDITS		
SIGNATURE OF INVENTOR AND NAME	(4)  David A. THOMAS	(5)	(6)
DATE			
RESIDENCE (City, County, State)	4103 Sugar Crossing Court Sugar Land, Ft. Bend Texas 77478		
DATE APPLICATION EXECUTED	6/3/04		

After recordation, please return Assignment to:

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