



To the Honorable Commissioner of Patents

102640259

checked original documents or copy thereof.

1. Name of conveying party(ies): 12-19-03
 Scott R. Summerfelt
 Sanjeev Aggarwal

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

2. Name and address of receiving party(ies):
 Name: Texas Instruments Incorporated
 Internal Address: _____
 Street Address: P.O. Box 655474, M/S 3999
 City: Dallas
 State/Country: Texas ZIP: 75265

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

3. Nature of conveyance:
 Assignment [] Merger
 Security Agreement [] Change of Name
 Other _____

Execution Date: Dec. 18 & Dec. 18, 2003

4. Application number(s) or patent number(s): 10742190

If this document is being filed together with a new application, the execution date of the application is: Dec. 18 & Dec. 18, 2003

A. Patent Application No.(s) _____ B. Patent No.(s) _____

Additional Numbers attached? [] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: Jacqueline J. Garner, Esq.
 Internal Address: _____
Texas Instruments Incorporated
 Street Address: P.O. Box 655474, M/S 3999
 City: Dallas
 State: Texas ZIP: 75251


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
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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 G. Eschweiler  December 19, 2003
 Name of Person Signing Signature Date

Reg. No. 36,981 Total number of pages including cover sheet attachments, and document: [4]

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


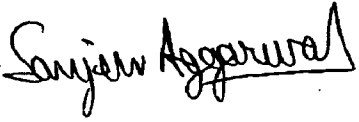
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with its principal office at 7839 Churchill Way, M.S. 3999, Dallas, Texas 75251, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon;

NEW, 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	A PZT (111) TEXTURE THROUGH Ir TEXTURE IMPROVEMENT	
SIGNATURE OF INVENTOR AND NAME	 Scott R. Summerfelt	 Sanjeev Aggarwal
DATE	12/18/03	12/18/03
RESIDENCE (CITY AND STATE)	3202 Bridle Path Court Garland, Texas 75044	8421 High Meadows Dr. Plano, Texas 75025
DATE APPLICATION EXECUTED	12/18/03	12/18/03

After recording, return Assignment to: Jacqueline J. Garner, Esq.
Texas Instruments Incorporated
P.O. Box 655474, M/S 3999
Dallas, TX 75265