Form POSZ-1595 OMB No. 0651-0027 RECORDATION FORM COVER SHEET U.S. DEPARTMENT COVER SHEET				
PATENT	S ONLY U.S. Petent and Trademark Office Attorney Dkt No. TI-67615 / 55-052			
To the hosorable Commissioner of Patents and Trademarks:	Please record the attached original documents or copy thereof.			
Name of conveying party(ies):	2. Name and address of receiving party(ies)			
(1): Gaurav AGARWAL (2): John DOWDAL	Name: TEXAS INSTRUMENTS INCORPORATED			
Additional name(s) of conveying party(les) attached? Yes X No.	Street Address: 7839 Churchill Way, MS 3999 Dallas, Texas, 75251, U.S.			
3. Nature of conveyance: X Assignment Merger				
Security Agreement Change of Name				
Execution Date(s): (1), (2): August 26, 2009	Additional name(s) & address(es) attached? Yes X No			
4. Application or patent number(s):	This document is being filed together with a new application.			
A. Patent Application No.(s)	B. Patent No.(s)			
12/548,776 Additional numbers at	tached? Yes X No			
 Name and address of party to whom correspondence concerning document should be mailed: 	6. Total number of applications and patents involved:			
Name: Steven A. Shaw	7. Total fee (37 CFR 3.41)\$40			
Address:	Enclosed			
P.O. Box 655474, M/S 3999	► Manifelized to be climbed to debody appoint			
City: Dallas State: TX Zip: 75265	8. Deposit account number: 20-0668 (Attach duplicate copy of this page if paying by deposit account)			
DO NOT USE THIS GPACE				
Statement and signature. To the best of my knowledge and belief, the foregoing in its a true copy of the original document.	(1) · K · (1)			
Cynthia K, Nicholson (Reg. No. 36.880) Name of Person Signing Signat				
Total number of pages including cover shee	t, attachments, and documents: 3			

cuments to be recorded with required cover sheet inform: Commissioner of Patents & Trademarks, Box Assignments Alexandria, VA 22313-1450

ATTORNEY DOCKET NO.

TI-67615 / 55-052

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, 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 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 assigned of my entire right, title and interest.

I also hereby soll 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, affidavity, and any other popula is 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, reisque 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 horeunto set my hand and seal this day and year;

TITLE OF INVENTION	EXTERNAL MEMORY DATA MANAGEMENT WITH DATA REGROUPING AND CHANNEL LOOK AHEAD		
SIONATURE OF INVENTOR AND NAME	GHUERV AGARWAL	John DOWDAL	
DATE	08/25/09		
RESIDENCE (City. State)	Houston, TX	Germantown, MD	
DATE APPLICATION EXECUTED	08/26/09		

After recordation, please return Assignment to:

Stoven Shaw
Texas Instruments Incorporated
P.O. Box 655474, M/S 3999
Dallas, TX 75265

PATENT REEL: 023153 FRAME: 0278

ATTORNEY DOCKET NO.
TI-67615 / 55-052

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, 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 appropriation 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 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 my hand and seal this day and year;

TITLE OF INVENTION	EXTERNAL MEMORY DATA MANAGEMENT WITH DATA REGROUPING AND CHANNEL LOOK AHEAD		
SIGNATURE OF INVENTOR AND NAME	Gaurav AQARWAL	John DOWDAL	
DATE		8-26-2009	
RESIDENCE (City, State)	Houston, TX	Germantown, MD	
DATE APPLICATION EXECUTED		8-26-2009	

After recordation, please return Assignment to:

Steven Shaw
Texas Instruments Incorporated
P.O. Box 653474, M/S 3999
Dallas, TX 75265

PATENT REEL: 023153 FRAME: 0279

RECORDED: 08/27/2009