Form PTO-1595 (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Of
	ORM COVER SHEET TI-64022 (1962-48900) TS ONLY
To the Director of the U.S. Patent and Trademark Office: Plea	ase record the attached documents or the new address(es) below.
1. Name of conveying party(ies) 1. Deric W. WATERS January 29, 2008 2. Anuj BATRA January 29, 2008 3. Srinath HOSUR January 29, 2008	2. Name and address of receiving party(ies) Name: Texas Instruments Incorporated Internal Address:
Additional name(s) of conveying party(ies) attached? Yes No. 3. Nature of conveyance/Execution Date(s): Execution Date(s) See dates above to right of parties Assignment Merger	Street Address: <u>P. O. Box 655474, MS 3999</u>
Security Agreement Change of Name Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License	City: Dallas State: Texas Country: US Zip: 75265
A. Patent Application No.(s) 12/022,461	Additional name(s) & address(es) attached? Yes V Note to document is being filed together with a new application B. Patent No.(s)
5. Name and address to whom correspondence concerning clocument should be mailed:	6. Total number of applications and patents involved: One
Name:Internal Address: Texas Instruments, Inc.	7. Total fee (37 CFR 1.21(h) & 3.41) \$40 Authorized to be charged by credit card
Street Address: P. O. Box 655474, MS 3999	✓ Authorized to be charged to deposit account ☐ Enclosed ☐ None required (government interest not affecting title)
City: <u>Dallas</u>	8. Payment Information
State: <u>Texas</u> Zip: <u>75265</u>	a. Credit Card Last 4 Numbers
Phone Number: <u>(972) 917-5137</u> Fax Number: <u>(972) 917-4418</u> Email Address: <u>steven-shaw@ti.com</u>	b. Deposit Account Number 20-0668 Authorized User Name Steven Shaw
Signature: Signature David M. Wilson Name of Person Signing	January 30, 2008 Date Total number of pages including cover sheet, attachments, and documents:
Documents to be recorded (including cover sheet)	

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:

Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

PATENT

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Jan-29-2008 04:35 PM Texas Instruments, Inc. 9727616966

i	Attorney Docket No. TI-64022 (1962-48900)	
i		ŀ

Serial No. ______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 a place of business at 7839 Churchill Way, M/S 3999, Dallas, Texas 73251, 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 regelpt 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 paths, 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;

TITILE OF INVENTION	NOISE VARIANCE ESTIMATION
SIGNATURE OF INVENTOR AND NAME	Deric W. WATERS Tim William
RESIDENCE (CITY AND STATE)	8905 Clearwater Drive, Dallas, TX 75243
DATE DECLARATION SIGNED	1/29/08

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PATENT REEL: 020441 FRAME: 0873 Jan-29-2008 04:35 PM Texas Instruments, Inc. 9727616966

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TITLE OF INVENTION	SCALING TO REDUCE WIRELESS SIGNAL DETECTION COMPLEXITY
SIGNATURE OF INVENTOR AND NAME	Anuj BATRA Any Batra
RESIDENCE (CITY AND STATE)	2510 Worthington Street, Dallas, TX 75204
DATE DECLARATION SIGNED	January 29, 2008

TITLE CF INVENTION	SCALING TO REDUCE WIRELESS SIGNAL DETECTION COMPLEXITY
SIGNATURE OF INVENTOR AND NAME	Stinath Hosur H. Juhall
RESIDENCE (CITY AND STATE)	8800 Canyonlands Drive, Plano, TX 75025
DATE DECLARATION SIGNED	· 29th January, 2008

After recording, return Assignment to:

Texas Instruments Incorporated PO Box 655474, M/8 3999 Dallas, TX 75265

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