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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Satyavolu Srinivas Papa Rao
Darius Lammont Crenshaw
Stephan Grunow

Jan. 10, Jan. 10, Jan. 10, Jan. 11, Jan. 11,
Jan. 10, Jan. 12, Jan. 12 & Jan. 11, 2005

Execution Date(s)

Additional name(s) of conveying party(ies) attached? Yes 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: Texas

Country: United States Zip: 75265

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other

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)

Additional numbers attached? Yes No

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

Name: Peter McLarty, Esq.

Internal Address:

Texas Instruments Incorporated

Street Address: P.O. Box 655474, M/S 3999

City: Dallas

State: Texas Zip: 75251

Phone Number: (972) 917-5248

Fax Number: (972) 917-4418

Email Address:

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 20-0668

Authorized User Name Texas Instruments Inc.

9. Signature:

Signature

January 18, 2005

Date

Thomas G. Eschweiler, Reg. No. 36,981

Name of Person Signing

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

11

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

01/28/2005 BTUN11 00000079 200668 11037530
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RECORDATION FORM COVER SHEET

PATENTS ONLY

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1. Name of conveying party(ies)

Kenneth D. Brennan
Somit Joshi
Montray Leavy
Phillip D. Matz
Sameer Kumar Ajmera
Yuri E. Solomentsev

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;

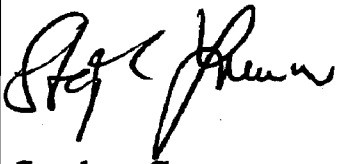

NEW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents 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.

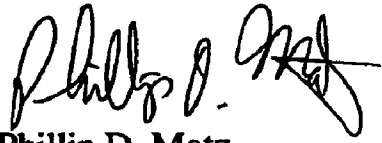
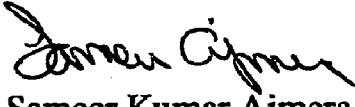
IN WITNESS WHEREOF, I hereunto set hand and seal this day and year;

TITLE OF INVENTION	SINGLE MASK MIM CAPACITOR AND RESISTOR WITH IN TRENCH COPPER DRIFT BARRIER	
SIGNATURE OF INVENTOR AND NAME	 Satyavolu Srinivas Papa Rao	 Darius Lammont Crenshaw
DATE	Jan 10, 2005	Jan 10, 2015
RESIDENCE (CITY AND STATE)	7013 Woodsprings Drive Garland, Texas 75044	805 Weeping Willow Court Allen, Texas 75002
DATE APPLICATION EXECUTED		

TITLE OF INVENTION	SINGLE MASK MIM CAPACITOR AND RESISTOR WITH IN TRENCH COPPER DRIFT BARRIER	
SIGNATURE OF INVENTOR AND NAME	 Stephan Grunow	 Kenneth D. Brennan
DATE	1/10/2005	1/9/05
RESIDENCE (CITY AND STATE)	7601 Churchill Way, Apt. #1032 Dallas, Texas 75251	2104 Florence Drive Plano, Texas 75093
DATE APPLICATION EXECUTED		

TITLE OF INVENTION	SINGLE MASK MIM CAPACITOR AND RESISTOR WITH IN TRENCH COPPER DRIFT BARRIER	
SIGNATURE OF INVENTOR AND NAME	 Somit Joshi	Montray Leavy
DATE	1/11/05	
RESIDENCE (CITY AND STATE)	354 E. Arbor Avenue Sunnyvale, California 94085	8805 Falcon Crest Drive McKinney, Texas 75070
DATE APPLICATION EXECUTED		

TITLE OF INVENTION	SINGLE MASK MIM CAPACITOR AND RESISTOR WITH IN TRENCH COPPER DRIFT BARRIER	
SIGNATURE OF INVENTOR AND NAME	Somit Joshi	 Montray Leavy
DATE		4/10/05
RESIDENCE (CITY AND STATE)	354 E. Arbor Avenue Sunnyvale, California 94085	8805 Falcon Crest Drive McKinney, Texas 75070
DATE APPLICATION EXECUTED		

TITLE OF INVENTION	SINGLE MASK MIM CAPACITOR AND RESISTOR WITH IN TRENCH COPPER DRIFT BARRIER	
SIGNATURE OF INVENTOR AND NAME	 Phillip D. Matz	 Sameer Kumar Ajmera
DATE	Jan 12, 2005	1/12/05
RESIDENCE (CITY AND STATE)	409 Silver Springs Lane Murphy, TX 75094	2002 Bluebonnet Drive Richardson, Texas 75082
DATE APPLICATION EXECUTED		

TITLE OF INVENTION	SINGLE MASK MIM CAPACITOR AND RESISTOR WITH IN TRENCH COPPER DRIFT BARRIER	
SIGNATURE OF INVENTOR AND NAME	<i>Yuri E Solomentsev</i>	
DATE	<i>01/11/2005</i>	
RESIDENCE (CITY AND STATE)	1620 Bridgeway Drive Austin, Texas 78704	
DATE APPLICATION EXECUTED		

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