

10-06-2004

Form PTO-1595 (Rev. 09/04)  
OMB No. 0651-0027 (exp. 6/30/2005)



U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

102853441  
RECORDATION FORM  
**PATENTS ONLY**

U.S. PTO  
10/952343  
22154



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):**

Sridhar Ramaswamy  
Hassan O. Ali  
Song Wu

Execution Date(s) 9/27/2004

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

**2. Name and address of receiving party(ies)**

Name: Texas Instruments Incorporated

Internal Address: MS 3999

Street Address: 7839 Churchill Way

City: Dallas

State: Texas

Country: USA Zip: 75251

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)

10/01/2004 DTESSEM1 00000047 10952343

40.00 OP

Additional numbers attached?  Yes  No

9-28-04

10952343

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

Name: Alan Stewart

Internal Address: Texas Instruments Incorporated

Street Address: P.O. Box 655474, MS 3999

City: Dallas

State: Texas Zip: 75265

Phone Number: \_\_\_\_\_

Fax Number: \_\_\_\_\_

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 13-0480(Deficiencies only)

Authorized User Name Baker & McKenzie LLP

**9. Signature:**

Signature

9/27/04

Date

Brian E. Harris

Name of Person Signing

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

2

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

**PATENT**  
**REEL: 015845 FRAME: 0227**

SEP-27-2004 10:45

## ASSIGNMENT

WHEREAS, I, the undersigned inventor (or each 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, MS 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;

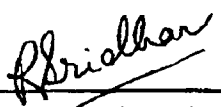
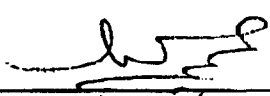
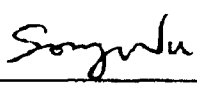
NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in and to the said application and all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

We hereby grant JOHN G. FLAIM, Registration No. 37,323, BRIAN C. McCORMACK, Registration No. 36,601, WILLIAM D. McSPADDEN, Registration No. 44,234, JAMES H. ORTEGA, Registration No. 60,554, RICHARD V. WELLS, Registration No. 53,757, BRIAN E. HARRIS, Registration No. 48,383, and all practitioners with the firm of Baker & McKenzie LLP (Customer Number 23562) with an office at 2001 Ross Avenue, Suite 2300, Dallas, TX 75201, as well as the attorneys with Texas Instruments Incorporated (Customer Number 29494) the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

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

TITLE OF INVENTION	<b>REDUCING THE COUPLING BETWEEN LC-OSCILLATOR-BASED PHASE-LOCKED LOOPS IN FLIP-CHIP ASICS</b>		
SIGNATURE OF INVENTOR AND NAME	(1) Sridhar Ramaswamy 	(2) Hassan O. Ali 	(3) Song Wu 
DATE	9/27/04	9/27/04	9/27/04
RESIDENCE (City, State)	Plano, TX	Richardson, TX	Plano, TX
DATE APPLICATION EXECUTED			

After recording, return Assignment to:

Alan Stewart  
Texas Instruments Incorporated  
P.O. Box 655474, MS 3999  
Dallas, Texas 75265

214 480 3555 P.02