

Form PTO-1595 (Rev. 12-08)
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U.S. DEPARTMENT OF COMMERCE
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RECORDATION FORM COVER SHEET PATENTS ONLY

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)
 Matthew David Romig
 Lance Cole Wright
 Leslie Edward Stark
 Frank Stepniak
 Sreenivasan K. Koduri
 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: 12500 TI Boulevard
 City: Dallas
 State: Texas
 Country: us Zip: 75243
 Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance/Execution Date(s):
 Execution Date(s) 10/30/12; 10/30/12; 10/30/12; 10/30/12; 10/31/12
 Assignment Merger
 Security Agreement Change of Name
 Joint Research Agreement
 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)
13/668,901
 Additional numbers attached? Yes No

B. Patent No.(s)

5. Name and address to whom correspondence concerning document should be mailed:
 Name: Texas Instruments Incorporated
 Internal Address: MS 3999
 Street Address: P.O. Box 655474
 City: Dallas
 State: Texas Zip: 75265
 Phone Number: (214) 479-1247
 Fax Number: (214) 479-1280
 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 to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment Information
 Deposit Account Number 200668
 Authorized User Name Wade J. Brady

9. Signature: _____ /William P. O'Meara/ _____ November 9, 2012
 Signature Date

 Name of Person Signing
 Total number of pages including cover sheet, attachments, and documents: 4

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

CH \$40.00 200668 13668901

Application No. 13/668,901

Attorney Docket No. TI-72223

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.

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 12500 TI Boulevard, MS 3999, Dallas, Texas 75243, 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 unto 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(s) and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Patent and Trademark Office to issue all patents for said invention, or patents resulting therefrom, 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 corresponding rights to the invention disclosed in said application in all other countries of the world, including the right to claim priority, file applications and obtain patents under the terms of the Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such 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.

I authorize the later insertion of the nonprovisional application number and filing date hereinbelow.

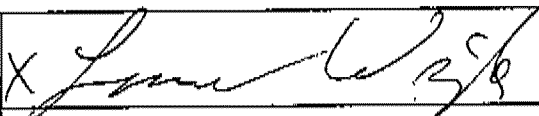
IN WITNESS WHEREOF, I hereunto set hand and seal this day and year;


TITLE	DISCRETE DEVICE MOUNTED ON SUBSTRATE		
NONPROVISIONAL APPLICATION NO.	13/668,901	FILING DATE	November 5, 2012

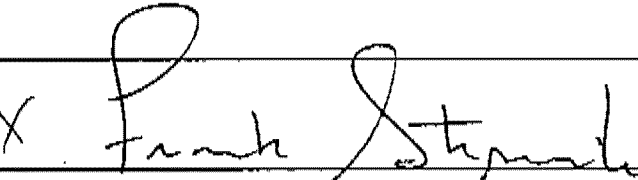
SIGNATURE OF INVENTOR	X 
PRINTED NAME OF INVENTOR	Matthew David Romig
DATE	X 10/30/12
RESIDENCE (CITY AND STATE)	Richardson, Texas

Application No. 13/668,901

Attorney Docket No. TI-72223

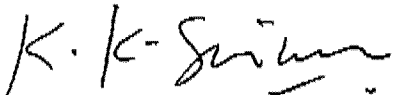
SIGNATURE OF INVENTOR	X 
PRINTED NAME OF INVENTOR	Lance Cole Wright
DATE	X 10/30/2012
RESIDENCE (CITY AND STATE)	Allen, Texas

SIGNATURE OF INVENTOR	X 
PRINTED NAME OF INVENTOR	Leslie Edward Stark
DATE	X 10/30/2012
RESIDENCE (CITY AND STATE)	Rowlett, Texas

SIGNATURE OF INVENTOR	X 
PRINTED NAME OF INVENTOR	Frank Stepniak
DATE	X 10/30/2012
RESIDENCE (CITY AND STATE)	Allen, Texas

Application No. 13/668,901

Attorney Docket No. TI-72223

SIGNATURE OF INVENTOR	X 
PRINTED NAME OF INVENTOR	Sreenivasan K. Koduri
DATE	X OCT-31-2012
RESIDENCE (CITY AND STATE)	Allen, Texas

After recording, return Assignment to:

Jonathon Scott
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PO Box 655474, M/S 3999
Dallas, TX 75265