

Form PTO-1595 (Rev. 03-09)

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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)Yoshimi Takahashi
Masood Murtuza
Rajiv Dunne
Satyendra Singh ChauhanAdditional 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: 7839 Churchill Way, M/S 3999

City: Dallas

State: Texas

Country: US

Zip: 75251

Additional name(s) & address(es) attached? ☐ Yes ☐ No**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) January 11, 2010

☒ 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):**

A. Patent Application No. (s)

12/694,012

☐ This document is being filed together with a new application.

B. Patent No. (s)

Additional numbers attached? ☐ Yes ☐ No**5. Name and address to whom correspondence concerning document should be mailed:**

Name: Texas Instruments Incorporated

Internal Address: _____

Street Address: 7839 Churchill Way, M/S 3999

City: Dallas

State: Texas

Zip: 75251

Phone Number: _____

Fax Number: _____

Email Address: _____

6. Total number of applications and patents involved:

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 20-0668

Authorized User Name Texas Instruments Inc.

9. Signature:

/Neil R. Jetter/

Signature

February 1, 2010

Date

Neil R. Jetter

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 12694012

700428415

PATENT
REEL: 023883 FRAME: 0334

Serial No.

Attorney Docket No.
TI-87773**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 7839 Churchill Way, M/S 3939, 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 to the said application and all patents which may be granted therefore, 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 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 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	DUAL CARRIER FOR JOINING IC DIE OR WAFERS TO TSV WAFERS
SIGNATURE OF INVENTOR AND NAME	<i>Yoshimi Takahashi</i> YOSHIMI TAKAHASHI
DATE	01/05/2010
RESIDENCE (CITY AND STATE)	BEPPU-CITY OITA-PREF

TITLE OF INVENTION	DUAL CARRIER FOR JOINING IC DIE OR WAFERS TO TSV WAFERS
SIGNATURE OF INVENTOR AND NAME	MASOOD MURTUZA
DATE	
RESIDENCE (CITY AND STATE)	SUGARLAND, TX

TITLE OF INVENTION	DUAL CARRIER FOR JOINING IC DIE OR WAFERS TO TSV WAFERS
SIGNATURE OF INVENTOR AND NAME	 RAJIV DUNNE
DATE	1/11/10
RESIDENCE (CITY AND STATE)	MURPHY, TX

TITLE OF INVENTION	DUAL CARRIER FOR JOINING IC DIE OR WAFERS TO TSV WAFERS
SIGNATURE OF INVENTOR AND NAME	SATYENDRA SINGH CHAUHAN
DATE	
RESIDENCE (CITY AND STATE)	SUGARLAND, TX

After recording, return Assignment to:

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Dallas, TX 75265

TI-67773

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TITLE OF INVENTION	DUAL CARRIER FOR JOINING IC DIE OR WAFERS TO TSV WAFERS
SIGNATURE OF INVENTOR AND NAME	 MASOOD MURTUZA
DATE	1/11/10
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