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103412336

TI-62573

To the Assistant Commissioner for Patents. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

**PREMA PALANIAPPAN, MASOOD MURTUZA,  
and SATYENDRA SINGH CHAUHAN**

2. Name and Address of receiving party(ies):

Name: **TEXAS INSTRUMENTS INCORPORATED**

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

City: **Dallas**

State: **TX** Zip: **75265**

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

3. Nature of Conveyance:

X Assignment                      \_\_\_ Merger  
\_\_\_ Security Agreement            \_\_\_ Change of Name  
\_\_\_ Other \_\_\_\_\_

Execution Date: **MAY 16, 2007**

4. Application number(s) or patent number(s).

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

Execution date of the application: **MAY 17, 2007**

Title: **MULTI LAYER LOW COST CAVITY SUBSTRATE FABRICATION FOR POP PACKAGES**

Docket No: **TI-62573**

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? \_\_\_ Yes X No

Additional numbers attached? \_\_\_ Yes X No

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

Name: **Yingsheng Tung, Reg. No. 52,305  
Texas Instruments Incorporated**

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

City: **Dallas**

State: **TX** Zip: **75265**

6. Number of applications and patents involved:   1  

7. Amount of fee enclosed or authorized to be charged: \$40

8. Deposit Account No: **20-0668** (Attach duplicate copy if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

**MAY 17, 2007**

Date

*Vasant V. Chaphekar*

Vasant V. Chaphekar

Reg. No. 48,344

Total Number of Pages including Cover Sheet, Attachments and Document: \_\_\_\_\_

PATENT  
REEL: 019388 FRAME: 0038

05/31/2007 BYRNE 00000185 200668 11804237  
01 FC:8021 40.00 DA

**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

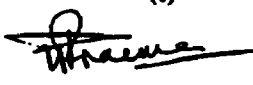
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 7839 Churchill Way, M/S 3999, Dallas, Texas 75251, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon;

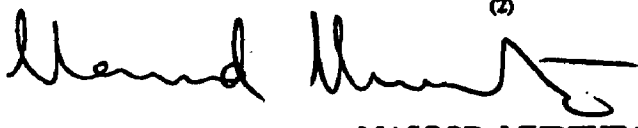
NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted 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	MULTI LAYER LOW COST CAVITY SUBSTRATE FABRICATION FOR POP PACKAGES
SIGNATURE OF INVENTOR AND NAME	(1)  PREMA PALANIAPPAN
DATE	MAY 16, 2007
RESIDENCE (City, State)	RICHARDSON, TX
DATE APPLICATION EXECUTED	MAY 16, 2007

<b>TITLE OF INVENTION</b>	<b>MULTI LAYER LOW COST CAVITY SUBSTRATE FABRICATION FOR POP PACKAGES</b>
<b>SIGNATURE OF INVENTOR AND NAME</b>	 <b>MASOOD MURTUZA</b>
<b>DATE</b>	<b>MAY 16, 2007</b>
<b>RESIDENCE (City, State)</b>	<b>SUGAR LAND, TX</b>
<b>DATE APPLICATION EXECUTED</b>	<b>MAY 16, 2007</b>

<b>TITLE OF INVENTION</b>	<b>MULTI LAYER LOW COST CAVITY SUBSTRATE FABRICATION FOR POP PACKAGES</b>
<b>SIGNATURE OF INVENTOR AND NAME</b>	 <b>SATYENDRA SINGH CHAUHAN</b>
<b>DATE</b>	<b>MAY 16, 2007</b>
<b>RESIDENCE (City, State)</b>	<b>SUGAR LAND, TX</b>
<b>DATE APPLICATION EXECUTED</b>	<b>MAY 16, 2007</b>

After recordation, please return Assignment to:

Yingsheng Tung  
 Texas Instruments Incorporated  
 P.O. Box 655474, M/S 3999  
 Dallas, TX 75265