

5/6/02



05-13-2002



FORM PTO-1595

TI-33461

U.S. Department of Commerce  
Patent and Trademark Office

102086642

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

|                                                                                                                                                           |                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Name of conveying party(ies):</p> <p>Alfred J. Griffin, Jr      3/27/02</p> <p>Antionietta Oliva      3/29/02</p> <p>Adel El Sayed      3/27/02</p> | <p>2. Name and Address of receiving party(ies):</p> <p>Name: TEXAS INSTRUMENTS INCORPORATED</p> <p>Address: P.O. Box 655474, MS 3999</p> <p>City: Dallas</p> <p>State: TX      Zip: 75265</p> <p>Additional name(s) &amp; address(es) attached? ____ Yes __X__ No</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

3. Nature of Conveyance:

☒ Assignment      ☐ Merger

☐ Security Agreement      ☐ Change of Name

☐ Other \_\_\_\_\_

Execution Date in order of listed parties:    3/27/02; 3/29/02; 3/27/02

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

This document is being filed together with a new application.

Execution date of the application in order of listed parties: : 3/27/02; 3/29/02; 3/27/02

Title: Method for Forming a Metal Extrusion Free Via

Docket No: TI-33461

|                                                                                                                  |                                                                                                |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <p>A. Patent Application No.(s)</p> <p>S.N. 10/091,789</p> <p>Additional numbers attached? ____ Yes __X__ No</p> | <p>B. Patent No.(s)</p> <p>X,XXX,XXX</p> <p>Additional numbers attached? ____ Yes __X__ No</p> |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: Gary C. Honeycutt<br/>Texas Instruments Incorporated</p> <p>Address: P.O. Box 655474, MS 3999</p> <p>City: Dallas</p> <p>State: TX      Zip: 75265</p> | <p>6. Number of applications and patents involved: ____ (1) ____</p> <p>7. Amount of fee enclosed or authorized to be charged: \$40</p> <p>8. Deposit Account No: 20-0668 (Attach duplicate copy if paying by deposit account)</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

DO NOT USE THIS SPACE

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.

Date: 4/24/02

Gary C. Honeycutt, Reg. No. 29,250

Total Number of Pages Including Cover Sheet, Attachments and Document: 3

05/10/2002 GTDN11 00000101 200668 10091789

01 FC:581 40.00 CH

# 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, 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 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<br>OF<br>INVENTION                | Method for Forming a Metal Extrusion Free Via             |                   |                                         |
| SIGNATURE<br>OF<br>INVENTOR<br>AND NAME | x <i>Alfred J. Griffin, Jr.</i><br>Alfred J. Griffin, Jr. | Antonietta Oliva  | x <i>Adel El Sayed</i><br>Adel El Sayed |
| DATE OF SIGNATURE                       | x <i>3/27/2002</i>                                        |                   | x <i>3/27/02</i>                        |
| RESIDENCE<br>(City, State)              | Dallas, Texas                                             | Richardson, Texas | Dallas, Texas                           |
| DATE<br>APPLICATION<br>EXECUTED         |                                                           |                   |                                         |

After recording Assignment, please return to:  
 Gary C. Honeycutt  
 Texas Instruments Incorporated  
 P.O. Box 655474, MS 3999  
 Dallas, TX 75265

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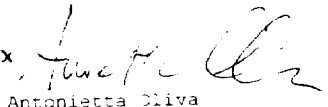
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| SIGNATURE<br>OF<br>INVENTOR<br>AND NAME | Alfred J. Griffin, Jr.                        | x <br>Antonietta Oliva | Adel El Sayed |
| DATE OF SIGNATURE                       |                                               | x 03/29/02                                                                                                 |               |
| RESIDENCE<br>(City, State)              | Dallas, Texas                                 | Richardson, Texas                                                                                          | Dallas, Texas |
| DATE<br>APPLICATION<br>EXECUTED         |                                               |                                                                                                            |               |

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