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FORM PTO-1595

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TI-23689

101100337

To the Honorable Commissioner of Patents and Trademarks, please return the attached original documents or copy thereof.

JCS38 U.S. PTO  
09/30/99  
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1. Name of conveying party(ies):  
1) Wei-Yung Hsu  
2) Qi-Zhong HONG

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:  
 Assignment      \_\_\_ Merger  
\_\_\_ Security Agreement      \_\_\_ Change of Name  
\_\_\_ Other \_\_\_\_\_  
Execution Date: **August 13, 1998**

4. Application number(s) or patent number(s).  
 This document is being filed together with a new application.  
Execution date of the application: **August 13, 1998**

Title: **METHOD OF IMPROVING THE TEXTURE OF ALUMINUM METALLIZATION FOR TUNGSTEN ETCH BACK PROCESSING**

Docket No: TI-23689

A. Patent Application No.(s)  
S.N.  
Additional numbers attached? \_\_\_ Yes \_\_\_X\_\_\_ No

B. Patent No.(s)  
Additional numbers attached? \_\_\_ Yes \_\_\_X\_\_\_ No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: Jacqueline J. Garner  
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** (Duplicate copies not required).

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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.

July 8, 1999  
Date

Jacqueline J. Garner Reg. No. 36,144

07/21/1999 BTM:MS 0000004 200668 09349624  
Sale Ref: 0000011 DM: 200668 09349624  
01 FC:101 760.00 CH  
02 FC:501 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


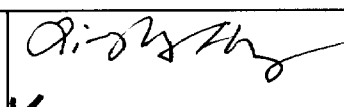
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 7839 Churchill Way, MS 3999 Dallas, Texas 75251, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said 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 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.

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

TITLE OF INVENTION	<b>METHOD OF IMPROVING THE TEXTURE OF ALUMINUM METALLIZATION FOR TUNGSTEN ETCH BACK PROCESSING</b>		
SIGNATURE OF INVENTOR AND NAME	<input checked="" type="checkbox"/>  Wei-Yung Hsu	<input checked="" type="checkbox"/>  Qi-Zhong Hong	
DATE	<input checked="" type="checkbox"/> 8/13/98	<input checked="" type="checkbox"/> 8/13/98	
RESIDENCE (City, County, State)	Dallas Dallas Texas	Dallas Dallas Texas	
DATE APPLICATION EXECUTED	<input checked="" type="checkbox"/> 8/13/98	<input checked="" type="checkbox"/> 8/13/98	

After recording return Assignment to:

Carlton H. Hoel  
Texas Instruments Incorporated  
P.O. Box 655474, M/S 3999  
Dallas, TX 75265