

TI-23287

8.5.99

REC



To the Honorable Commissioner of Patents and Tra

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ments or copy thereof.

1. Name of conveying party(ies):

- 1) Ming Hwang
- 2) Wei-Yung Hsu
- 3) Chih-Chen Cho
- 4) Dirk N. Anderson

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

10511 U.S. PTO
09/369132
08/05/99

3. Nature of Conveyance:

- Assignment ___ Merger
 ___ Security Agreement ___ Change of Name
 ___ Other _____

Execution Date: **October 27, 1998, October 2, 1998, October 3, 1998, October 2, 1998**

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

This document is being filed together with a new application.

Execution date of the application: **October 27, 1998, October 2, 1998, October 3, 1998, October 2, 1998**

Title: **A METHOD TO PROTECT METAL FROM OXIDATION DURING POLY-METAL GATE FORMATION IN SEMICONDUCTOR DEVICE MANUFACTURING**

Docket No: TI-23287

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

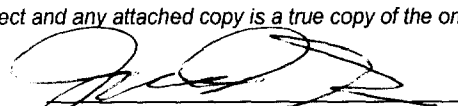
8. Deposit Account No: **20-0668** (Duplicate copies not required).

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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.

08/05/99
Date


 Jacqueline J. Garner Reg. No.36,144

08/11/1999 HGBORDON 00000039 200668 09369132
02 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 OF INVENTION	A Method to Protect Metal From Oxidation During Poly-Metal Gate Formation in Semiconductor Device Manufacturing		
SIGNATURE OF INVENTOR AND NAME	 Ming Hwang	Wei-Yung Hsu	Chih-Chen Cho
DATE	10-27-98		
RESIDENCE (City, County, State)	Dallas, Dallas County, Texas	Dallas, Dallas County, Texas	Richardson, Dallas County, Texas
DATE APPLICATION EXECUTED	10-27-98		

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

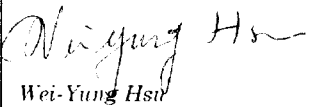
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 7839 Churchill Way, MS 3999, Dallas, Texas 75251, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said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

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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	A Method to Protect Metal From Oxidation During Poly-Metal Gate Formation in Semiconductor Device Manufacturing		
SIGNATURE OF INVENTOR AND NAME	<i>Ming Hwang</i>	 <i>Wei-Yung Hsu</i>	<i>Chih-Chen Cho</i>
DATE		<i>12/2/98</i>	
RESIDENCE (City, County, State)	Dallas, Dallas County, Texas	Dallas, Dallas County, Texas	Richardson, Dallas County, Texas
DATE APPLICATION EXECUTED		<i>10/2/98</i>	

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.

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

TITLE OF INVENTION	A Method to Protect Metal From Oxidation During Poly-Metal Gate Formation in Semiconductor Device Manufacturing		
SIGNATURE OF INVENTOR AND NAME	<i>Ming Hwang</i>	<i>Wei-Yung Hsu</i>	<i>Chih-Chen Cho</i> Chih-Chen Cho
DATE			10/3/98
RESIDENCE (City, County, State)	Dallas, Dallas County, Texas	Dallas, Dallas County, Texas	Richardson, Dallas County, Texas
DATE APPLICATION EXECUTED			10/3/98

SIGNATURE OF INVENTOR AND NAME	 Dirk N. Anderson		
DATE	10/2/98		
RESIDENCE (City, County, State)	Plano, Collin County, Texas		
DATE APPLICATION EXECUTED			

After recording return Assignment to: Jacqueline J. Garner
Texas Instruments Incorporated
P.O. Box 655474, MS 3999
Dallas, Texas 75265