03-17-1999



FORM PTO-1595 100986639 U.S. Department of Commerce Patent and Trademark Office TI-26923 PATENTS ONLY To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and Address of receiving party(ies): Jiong-ping Lu Name: TEXAS INSTRUMENTS INCORPORATED Address: P.O. Box 655474, MS 3999 Boyang Lin City: Wei-yung Hsu 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: February 27, 1998, February 27, 1998, February 27, 1998 4. Application number(s) or patent number(s). _X_ This document is being filed together with a new application. Execution date of the application: February 23, 1999 Title: CVD Tungsten Process Which Uses A Novel Nucleation Step Docket No: TI-26923 B. Patent No.(s) A. Patent Application No.(s) Additional numbers attached? _____Yes __X__No Additional numbers attached? _____ Yes __X_ No 6. Number of applications and patents involved: ____(1)___ 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Mark A. Valetti Texas Instruments Incorporated Address: P.O. Box 655474, MS 3999 Dallas City: State: TX Zip: 75265 7. Amount of fee enclosed or authorized to be charged: \$40 8. Deposit Account No: 20-0668 (Duplicate copies not required). DO NOT USE THIS SPACE) FC:58 Mark A. Valetti Reg. No.36,707

> PATENT REEL: 9812 FRAME: 0232

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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, having a place of business at 7839 Churchill Way, MS 3999, Dallas, Texas 75251, P.O. Box 655474, MS 3999, Dallas, Texas 75265, 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 my hand and seal this day and year;

TITLE OF INVENTION	CVD Tungsten Process Which Uses A Novel Nucleation Step		
SIGNATURE OF INVENTOR AND NAME	Jiong-Ping Lu	Description (2)	(3) Wed-Yung Hsu
DATE	2-27-9f	2-27-98	2-7.98
RESIDENCE (City, County, State)	Dallas, Dallas, Texas	Richardson, Dallas, Texas	Dallas, Dallas, Texas
DATE APPLICATION EXECUTED	2-27-9f	z-27-98	2-27.98

After recordation, please return Assignment to:

RECORDED: 02/23/1999

Robby T. Holland Texas Instruments Incorporated P.O. Box 655474, M/S 3999 Dallas, TX 75265

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