

11-14-2003

FORM PTO-1595

TI-33223



102601099

U.S. Department of Commerce  
Patent and Trademark Office

11.6.03

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

## 1. Name of conveying party(ies):

Rajesh Khamankar  
Douglas T. Grider  
Hiroaki Niimi  
April Gurba  
Toan Tran  
James J. Chambers

## 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) &amp; address(es) attached? \_\_\_ Yes \_\_\_X\_\_\_ No

03917 U.S. PTO  
10/702234

110603

## 3. Nature of Conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: Niimi 06/10/2003; Khamankar 06/19/2003; Grider, Gurba, Tran, Chambers 06/20/2003

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

10702234

☒ This document is being filed together with a new application

Execution date of the application: Niimi 06/10/2003; Khamankar 06/19/2003; Grider, Gurba, Tran, Chambers 06/20/2003

Title: Reliable High Voltage Gate Dielectric Layers Using a Dual Nitridation Process

Docket No: TI-35092

A. Patent Application No.(s)  
(to be assigned)

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 this document should be mailed:

Name: Peter K. McLarty, Reg. No. 44,923  
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)

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

11/5/03

Peter K. McLarty, Reg. No. 44,923

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

11/13/2003 LNUELLER 00000262 200668 10702234

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PATENT  
REEL: 014685 FRAME: 0433

# 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

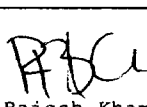
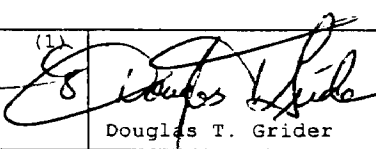
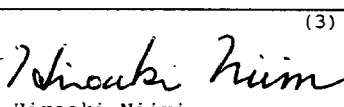
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 7839 Churchill Way, MS 3999, Dallas, Texas 75251, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said 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	RELIABLE HIGH VOLTAGE GATE DIELECTRIC LAYERS USING A DUAL NITRIDATION PROCESS		
SIGNATURE OF INVENTOR AND NAME	(1)  Rajesh Khamankar	(2)  Douglas T. Grider	(3)  Hiroaki Niimi
DATE OF SIGNATURE	June 19, 2003	June 20, 2003	June 10, 2003
RESIDENCE (City and State)	Coppell, Texas	McKinney, Texas	Richardson, Texas
DATE APPLICATION EXECUTED	June 19, 2003	June 20, 2003	

After recording Assignment, please return to:

Peter K. McLarty  
Texas Instruments Incorporated  
P.O. Box 655474, MS 3999  
Dallas, TX 75265

# 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

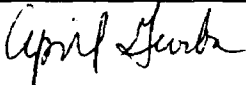
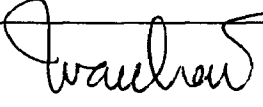

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NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said 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	RELIABLE HIGH VOLTAGE GATE DIELECTRIC LAYERS USING A DUAL NITRIDATION PROCESS		
SIGNATURE OF INVENTOR AND NAME	 (4) April Gurba	 (5) Toan Tran	 (6) James J. Chambers
DATE OF SIGNATURE	June 20, 2003	June 20, 2003	June 20, 2003
RESIDENCE (City and State)	Plano, Texas	Rowlett, Texas	Plano, Texas
DATE APPLICATION EXECUTED	June 20, 2003	June 20, 2003	June 20, 2003

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