

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
James Joseph CHAMBERS	10/02/2009
Hiroaki NIIMI	10/05/2009
Luigi COLOMBO	10/02/2009
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TEXAS INSTRUMENTS INCORPORATED
<b>Street Address:</b>	7839 CHURCHILL WAY
<b>Internal Address:</b>	MS 3999
<b>City:</b>	DALLAS
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	75251
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12570620
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(972)917-4418
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	972-917-4361
<b>Email:</b>	sjolly@ti.com
<b>Correspondent Name:</b>	TEXAS INSTRUMENTS INCORPORATED
<b>Address Line 1:</b>	P O BOX 655474, M/S 3999
<b>Address Line 4:</b>	DALLAS, TEXAS 75265
<b>ATTORNEY DOCKET NUMBER:</b>	TI-67037
<b>NAME OF SUBMITTER:</b>	Sharon Jolly

Total Attachments: 4  
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**PATENT  
 REEL: 023415 FRAME: 0990**

**CH \$40.00 12570620**

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Application No. 12/570,620

Attorney Docket No. TI-67037

**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.

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, M/S 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, as well as to U.S. Provisional Application No(s) 61/101,322, filed September 30, 2008;

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(s) and all patents which may be granted therefore, and all divisions, reissues, substitutions, continuations, and extensions thereof, and I hereby authorize and request the Patent and Trademark Office to issue all patents for said invention, or patents resulting therefrom, 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 corresponding rights to the invention disclosed in said application in all other countries of the world, including the right to claim priority, file applications and obtain patents under the terms of the Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such 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.

I authorize the later insertion of the nonprovisional application number and filing date hereinbelow.

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

TITLE	METHODS TO MAXIMIZE NITROGEN CONCENTRATION AT THE TOP SURFACE OF GATE DIELECTRICS		
NONPROVISIONAL APPLICATION NO.	12/570,620	FILING DATE	09/30/2009

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	James Joseph CHAMBERS
DATE	
RESIDENCE (CITY AND STATE)	Dallas, TX

Application No. 12/570,620

Attorney Docket No. TI-67037

**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.

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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 and to the said application(s) and all patents which may be granted therefore, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Patent and Trademark Office to issue all patents for said invention, or patents resulting therefrom, to the said TEXAS INSTRUMENTS INCORPORATED, as assignee of my entire right, title and interest.

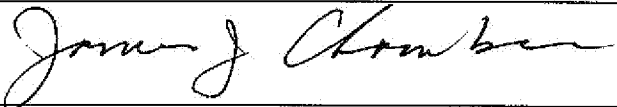
I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my corresponding rights to the invention disclosed in said application in all other countries of the world, including the right to claim priority, file applications and obtain patents under the terms of the Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such rights.

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I authorize the later insertion of the nonprovisional application number and filing date hereinbelow.

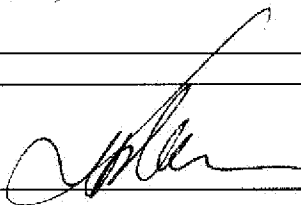
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TITLE	METHODS TO MAXIMIZE NITROGEN CONCENTRATION AT THE TOP SURFACE OF GATE DIELECTRICS		
NONPROVISIONAL APPLICATION NO.	12/570,620	FILING DATE	09/30/2009

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	James Joseph CHAMBERS
DATE	OCT 02, 2009
RESIDENCE (CITY AND STATE)	Dallas, TX

Application No. 12/570,620

Attorney Docket No. TI-67037

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Hiroaki NIIMI
DATE	
RESIDENCE (CITY AND STATE)	Dallas, TX
SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Luigi COLOMBO
DATE	Oct 2 - 2009
RESIDENCE (CITY AND STATE)	Dallas, TX

After recording, return Assignment to:

Jacqueline J. Garner  
Texas Instruments Incorporated  
PO Box 655474, M/S 3999  
Dallas, TX 75265

Assignment From Inventor (US 9/09)

**PATENT**  
**REEL: 023415 FRAME: 0994**

Application No. 12/570,620

Attorney Docket No. TI-67037

SIGNATURE OF INVENTOR	<i>Hiroaki Niimi</i>
PRINTED NAME OF INVENTOR	Hiroaki NIIMI
DATE	<i>10/05/2009</i>
RESIDENCE (CITY AND STATE)	Dallas, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Luigi COLOMBO
DATE	
RESIDENCE (CITY AND STATE)	Dallas, TX

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Jacqueline J. Garner  
Texas Instruments Incorporated  
PO Box 655474, M/S 3999  
Dallas, TX 75265

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RECORDED: 10/23/2009

REEL: 023415 FRAME: 0995