PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT		
CONVEYING PARTY DATA				
		Name Execution Date		
Tathagata CHATTER	JEE	08/18/2009		
Henry Lltzmann EDWARDS		08/18/2009		
Chris BOWEN		08/18/2009		
RECEIVING PARTY DATA				
Name:	TEXAS INSTRUMENTS INCORPORATED			
Street Address:	7839 CHURCHILL WAY			
Internal Address:	MS 3999			
City:	DALLAS			
State/Country:	TEXAS			
Postal Code:	75251			
PROPERTY NUMBERS Total: 1				
PROPERTY NUMBER	RS Total: 1		408V	
PROPERTY NUMBER		Number	12644805	
	/pe	Number 14805		
Property Ty	/pe			
Property Ty Application Number: CORRESPONDENCE	/pe 1254 DATA	4805		
Property Ty Application Number: CORRESPONDENCE Fax Number:	/pe 1254 DATA (972)917-441	4805		
Property Ty Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will b</i> Phone:	pe 1254 DATA (972)917-441 pe sent via US Mail (972-917-4361	8 <i>when the fax attempt is unsuccessful.</i>		
Property Ty Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will b</i> Phone: Email:	DATA (972)917-441 <i>9</i> 72-917-4361 sjolly@ti.com	8 <i>when the fax attempt is unsuccessful.</i>		
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PATENT REEL: 023302 FRAME: 0709

Attorney Docket No. TI-65625

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 assigned the application number given 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, M/S 3999, Dallas, Texas 75251, is desirous of acquiring my entire right, title and interest in and to the said invention, in and to the said application and any Letters Patent that may issue thereon, and any provisional application from which it claims priority;

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, continuations-inpart and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents 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 Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, declarations and 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 assignce 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 requested to aid said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominces to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set my hand and seal effective the 18th day of August 2009.

TITLE OF INVENTION	TWO TERMINAL QUANTUM DEVICE USING MOS CAPACITOR STRUCTURE
FIRST INVENTOR SIGNATURE	Tathagata CHATTERJEE
RESIDENCE (CITY AND STATE)	Allen, Texas
SECOND INVENTOR SIGNATURE	Henry Litzmann EDWARDS 2 Lay Fitzmann Edward
RESIDENCE (CITY AND STATE)	Garland, Texas
THIRD INVENTOR SIGNATURE	Chris BOWEN
RESIDENCE (CITY AND STATE)	Lucas, Texas
APPLICATION(S)	US 61/090,303 filed August 20, 2008
After recording, return A	ssignment to: Jacqueline Garner, Texas Instruments Incorporated PO Box 655474, M/S 3999

Dallas, TX 75265

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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 suid 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, continuations-inpart and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents 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 Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, declarations and other papers in connection therewith necessary to perfect such patent rights.

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RECORDED: 09/30/2009