

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT4137797

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BINGHUA HU	10/17/2016
ABBAS ALI	09/20/2016
SOPA CHEVACHAROENKUL	09/19/2016
JARVIS BENJAMIN JACOBS	09/19/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TEXAS INSTRUMENTS INCORPORATED
<b>Street Address:</b>	12500 TI BOULEVARD, M/S 3999
<b>City:</b>	DALLAS
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	75243
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15348459
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Email:</b>	uspto@ti.com
<b>Correspondent Name:</b>	TEXAS INSTRUMENTS INCORPORATED
<b>Address Line 1:</b>	12500 TI BOULEVARD, M/S 3999
<b>Address Line 4:</b>	DALLAS, TEXAS 75243
<b>ATTORNEY DOCKET NUMBER:</b>	TI-77213
<b>NAME OF SUBMITTER:</b>	ARLENE J. SIMON
<b>SIGNATURE:</b>	/Arlene J. Simon/
<b>DATE SIGNED:</b>	11/10/2016
<b>Total Attachments: 2</b>	
source=TI-77213-Assignment#page1.tif	
source=TI-77213-Assignment#page2.tif	

Serial No.

Attorney Docket No.  
TI-77213

**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.

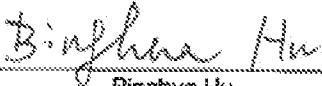
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 12500 TI Boulevard, M/S 3999, Dallas, Texas 75243, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon.

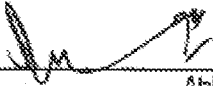
NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefore, 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 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 patent rights.

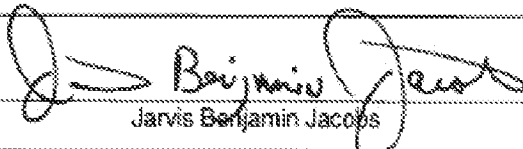
I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute 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	INTEGRATED TRENCH CAPACITOR WITH TOP PLATE HAVING REDUCED VOIDS
SIGNATURE OF INVENTOR AND NAME	 Binghua Hu
DATE	10 / 17 / 2016
RESIDENCE (CITY AND STATE)	Piano, TX

TITLE OF INVENTION	INTEGRATED TRENCH CAPACITOR WITH TOP PLATE HAVING REDUCED VOIDS
SIGNATURE OF INVENTOR AND NAME	 Abbas Ali
DATE	9-20-16
RESIDENCE (CITY AND STATE)	Plano, TX

TITLE OF INVENTION	INTEGRATED TRENCH CAPACITOR WITH TOP PLATE HAVING REDUCED VOIDS
SIGNATURE OF INVENTOR AND NAME	 Sopa Chevaroenkul
DATE	09/19/2016
RESIDENCE (CITY AND STATE)	Richardson, TX

TITLE OF INVENTION	INTEGRATED TRENCH CAPACITOR WITH TOP PLATE HAVING REDUCED VOIDS
SIGNATURE OF INVENTOR AND NAME	 Jarvis Benjamin Jacobs
DATE	09/19/2016
RESIDENCE (CITY AND STATE)	Murphy, TX

After recording, return Assignment to:

Texas Instruments Incorporated  
 PO Box 655474, M/S 3999  
 Dallas, TX 75265