

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4157520

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BENJAMIN STASSEN COOK	11/21/2016
ARCHANA VENUGOPAL	11/16/2016
LUIGI COLOMBO	11/15/2016
ROBERT REID DOERING	11/16/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TEXAS INSTRUMENTS INCORPORATED
<b>Street Address:</b>	12500 TI BOULEVARD
<b>Internal Address:</b>	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>
Application Number:	15361397
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(214)567-2228
<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>Phone:</b>	214-479-1241
<b>Email:</b>	uspto@ti.com,swalsh@ti.com
<b>Correspondent Name:</b>	TEXAS INSTRUMENTS INCORPORATED
<b>Address Line 1:</b>	12500 TI BOULEVARD
<b>Address Line 2:</b>	M/S 3999
<b>Address Line 4:</b>	DALLAS, TEXAS 75243
<b>ATTORNEY DOCKET NUMBER:</b>	TI-77104
<b>NAME OF SUBMITTER:</b>	SHAWN T. WALSH
<b>SIGNATURE:</b>	/Shawn T. Walsh/
<b>DATE SIGNED:</b>	11/26/2016
<b>Total Attachments: 4</b>	

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source=TI-77104\_Assignment\_signed#page3.tif  
source=TI-77104\_Assignment\_signed#page4.tif

**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, as well as to U.S. Provisional Application No(s). \_\_\_\_\_, filed \_\_\_\_\_;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign unto 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 therefor, 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.

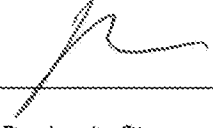
I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my corresponding rights to the invention disclosed in said application in all other countries of the world, including the right to claim priority, file applications and obtain patents under the terms of the Paris 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	THERMAL ROUTING TRENCH BY ADDITIVE PROCESSING		
NONPROVISIONAL APPLICATION NO.		FILING DATE	

SIGNATURE OF INVENTOR			
PRINTED NAME OF INVENTOR	Benjamin Stassen Cook		
DATE	11/21/2016		
RESIDENCE (CITY AND STATE)	Rockwall, TX		

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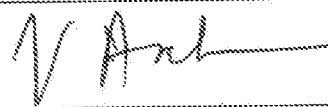
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NONPROVISIONAL APPLICATION NO.		FILING DATE	

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Archana Venugopal
DATE	16 NOV 2016
RESIDENCE (CITY AND STATE)	Dallas, TX

Application No.

Attorney Docket No. TI-77104

## 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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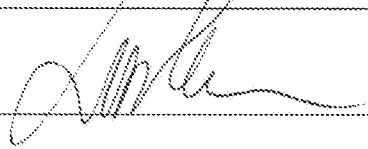
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NONPROVISIONAL APPLICATION NO.		FILING DATE	

SIGNATURE OF INVENTOR			
PRINTED NAME OF INVENTOR	Luigi Colombo		
DATE	11/15/16		
RESIDENCE (CITY AND STATE)	Dallas, TX		

Application No.

Attorney Docket No. TI-77104

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NONPROVISIONAL APPLICATION NO.		FILING DATE	

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Robert Reid Doering
DATE	11-16-2016
RESIDENCE (CITY AND STATE)	Garland, TX

PATENT

RECORDED: 11/26/2016

REEL: 040419 FRAME: 0560