## 503672577 01/30/2016

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3719212

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
WENXUN QIU	01/21/2016
TIMOTHY MARK SCHMIDL	01/21/2016

### **RECEIVING PARTY DATA**

Name:	TEXAS INSTRUMENTS INCORPORATED
Street Address:	12500 TI BOULEVARD, MS 3999
City:	DALLAS
State/Country:	TEXAS
Postal Code:	75243

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15003181

### **CORRESPONDENCE DATA**

**Fax Number:** (303)297-2266

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.

**Phone:** (214) 479-1247

**Email:** angela.deoliveira@klaaslaw.com

Correspondent Name: TEXAS INSTRUMENTS INCORPORATED

Address Line 1: P.O. BOX 655474

Address Line 2: MS 3999

Address Line 4: DALLAS, TEXAS 75265

ATTORNEY DOCKET NUMBER:	TI-76032	
NAME OF SUBMITTER:	ANGELA DEOLIVEIRA	
SIGNATURE:	/Angela DeOliveira/	
DATE SIGNED:	01/30/2016	

### **Total Attachments: 4**

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PATENT 503672577 REEL: 037627 FRAME: 0954

### **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, MS 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. 62/154,507, filed April 29, 2015;

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	CIRCUITS AND METHODS FOR FREQUENCY OFFSET ESTIMATION IN FSK COMMUNICATIONS		
NONPROVISIONAL APPLICATION NO.	15/003,181	FILING DATE	January 21, 2016
SIGNATURE OF INVENTOR	× Wenxun Qi	1	
PRINTED NAME OF INVENTOR	Wenxun Qiu		
DATE	× 01/24/16		
RESIDENCE (CITY AND STATE)	Allen, Texas		

PATENT REEL: 037627 FRAME: 0955

SIGNATURE OF INVENTOR	×
PRINTED NAME OF INVENTOR	Timothy Mark Schmidl
DATE	×
RESIDENCE (CITY AND STATE)	Dallas, Texas
SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	
DATE	
RESIDENCE (CITY AND STATE)	
SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	
DATE	
RESIDENCE (CITY AND STATE)	

After recording, return Assignment to:

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

> PATENT REEL: 037627 FRAME: 0956

### **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, MS 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. 62/154,507, filed April 29, 2015;

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	CIRCUITS AND METHODS FOR FREQUENCY OFFSET ESTIMATION IN FSK COMMUNICATIONS		
NONPROVISIONAL APPLICATION NO.	15/003,181	FILING DATE	January 21, 2016
SIGNATURE OF INVENTOR	×		
PRINTED NAME OF INVENTOR	Wenxun Qiu		
DATE	×		
RESIDENCE (CITY AND STATE)	Allen, Texas		
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PATENT REEL: 037627 FRAME: 0957

SIGNATURE OF INVENTOR	× II w 41
PRINTED NAME OF INVENTOR	Timothy Mark Schmidl
DATE	× Jan 21, 2016
RESIDENCE (CITY AND STATE)	Dallas, Texas
SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	
DATE	
RESIDENCE (CITY AND STATE)	
SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	
DATE	
RESIDENCE (CITY AND STATE)	

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> PATENT REEL: 037627 FRAME: 0958

**RECORDED: 01/30/2016**