# 502052712 09/07/2012

# PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
Nirmal C. Warke	08/31/2012
Robert F. Payne	08/31/2012
Gerd Schuppener	08/31/2012
Brad Kramer	09/04/2012

### **RECEIVING PARTY DATA**

Name:	Texas Instruments Incorporated
Street Address:	12500 TI Boulevard
Internal Address:	M/S 3999
City:	Dallas
State/Country:	TEXAS
Postal Code:	75243

# PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13607245

# **CORRESPONDENCE DATA**

 Fax Number:
 2144791273

 Phone:
 214-479-1239

 Email:
 mathewson@ti.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: John J. Patti
Address Line 1: 12500 TI Boulevard

Address Line 2: M/S 3999

Address Line 4: Dallas, TEXAS 75243

ATTORNEY DOCKET NUMBER:	TI-72598	
NAME OF SUBMITTER:	Tina Mathewson	PATENT

502052712 REEL: 028919 FRAME: 0878

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# Total Attachments: 4 source=72598\_Assignment#page1.tif source=72598\_Assignment#page2.tif source=72598\_Assignment#page3.tif source=72598\_Assignment#page4.tif

RESIDENCE

(CITY AND STATE)

# **ASSIGNMENT**

WHEREAS, I, the undersigned inventor (or one of the undersigned joint in	nventors), of residence as listed, having invented certain
new and useful improvements as below entitled, for which application for United St	ates Letters Patent is made.

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;

Irving, TX

TITLE	CARRIER RECOVERY IN AMPLITUDE AND PHASE MODULATED SYSTEMS
NONPROVISIONAL APPLICATION NO.	FILING DATE
SIGNATURE OF INVENTOR	Nind Wark
PRINTED NAME OF INVENTOR	Nirmal C. Warke
DATE	31, Ave 2012

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Robert F. Payne
DATE	
RESIDENCE (CITY AND STATE)	Lucas, TX
SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Gerd Schuppener
DATE	
RESIDENCE (CITY AND STATE)	Allen, TX
SIGNATURE	
OF INVENTOR	
PRINTED NAME OF INVENTOR	Brad Kramer
DATE	
RESIDENCE (CITY AND STATE)	Plano, TX

After recording, return Assignment to:

Texas Instruments Incorporated 12500 TI Boulevard (M/S 3999) Dallas, Texas 75243

### **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	CARRIER RECOVERY IN AMPLITUDE AND PHASE MODULATED SYSTEMS	
NONPROVISIONAL APPLICATION NO.	FILING DATE	
SIGNATURE OF INVENTOR		
PRINTED NAME OF INVENTOR	Nirmal C. Warke	
DATE		
RESIDENCE (CITY AND STATE)	Irving, TX	

SIGNATURE OF INVENTOR	RlA 2 Car
PRINTED NAME OF INVENTOR	Robert F. Payne
DATE	8 31 3015
RESIDENCE (CITY AND STATE)	Lucas, TX
SIGNATURE OF INVENTOR	Ly Schooner
PRINTED NAME OF INVENTOR	Gerd Schuppener
DATE	08131/2012
RESIDENCE (CITY AND STATE)	Allen, TX
SIGNATURE OF INVENTOR	Broadla
PRINTED NAME OF INVENTOR	Brad Kramer
DATE	9/4/12
RESIDENCE (CITY AND STATE)	Plano, TX

After recording, return Assignment to:

Texas Instruments Incorporated 12500 Tl Boulevard (M/S 3999) Dallas, Texas 75243

PATENT REEL: 028919 FRAME: 0883

**RECORDED: 09/07/2012**