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FORM PTO-1595 (Rev. 03-09) OMB No. 0651-0027 (exp. 03/31/2009)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office		
	DRM COVER SHEET TI-71040 ΤΙ-71040		
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.			
1. Name of conveying party(ies)/Execution Date(s):	2. Name and address of receiving party(ies)		
Eric Gregory Oettinger	Name: <u>Texas Instruments Incorporated</u>		
	Internal Address:		
Execution Date(s) <u>12/19/2011</u> Additional name(s) of conveying party(ies) attached? Yes X No			
3. Nature of conveyance:	Street Address:12500 TI Boulevard - M/S 3999		
Assignment 🛛 Merger	City: Dallas		
Security Agreement Change of Name	State: Texas		
Joint Research Agreement			
Government Interest Assignment	Country: USA Zip: 75243		
Executive Order 9424, Confirmatory License Other	Additional name(s) & address(es) attached? 🔲 Yes 🗵 No		
na n			
4. Application or patent number(s);	This document is being filed together with a new application.		
A. Patent Application No.(s)	B. Patent No.(s)		
U.S. Serial No.: 13/337,674			
Filed: 27-December-2011			
Confirmation No.: 3716	1		
Additional numbers attached? Yes No			
5. Name and address to whom correspondence 6. Total number of applications and patents			
concerning document should be mailed:	involved: 1		
Name: William Kempler	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00		
Internal Address: <u>Texas Instruments Incorporated</u>	Authorized to be charged by credit card		
	Authorized to be charged to deposit account		
Street Address: 12500 TI Boulevard – M/S 3999			
	None required (government interest not affecting title)		
City: <u>Dallas</u>	8. Payment Information		
State: Texas Zip: 75243	a. Credit Card Last 4 Numbers		
Phone Number: (214)479-1215			
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Fax Number: (972) 917-4418			
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Fax Number: (972) 917-4418 Email Address: w-kempler@ti.com			
Fax Number: (972) 917-4418 Email Address: w-kempler@ti.com 9. Signature: OL	b. Deposit Account Number 20-0668		
Fax Number: (972) 917-4418 Email Address: w-kempler@ti.com	b. Deposit Account Number <u>20-0668</u> Authorized User Name Tarolli, Sundheim, Covell & Tummino, L.L.P.		
Fax Number: (972) 917-4418 Email Address: w-kempler@ti.com 9. Signature: OL Signature Signature	b. Deposit Account Number <u>20-0668</u> Authorized User Name Tarolli, Sundheim, Covell & Tummino, L.L.P. <u>27-December-2011</u> Date		
Fax Number: (972) 917-4418 Email Address: w-kempler@ti.com 9. Signature:	b. Deposit Account Number <u>20-0668</u> Authorized User Name Tarolli, Sundheim, Covell & Tummino, L.L.P. <u>27-December-2011</u> Date Total number of pages including cover		
Fax Number: (972) 917-4418 Email Address: w-kempler@ti.com 9. Signature: OL Signature	b. Deposit Account Number <u>20-0668</u> Authorized User Name Tarolli, Sundheim, Covell & Tummino, L.L.P. <u>27-December-2011</u> Date Total number of pages including cover sheet, attachments, and documents: 2		

PATENT REEL: 027498 FRAME: 0420

700477436

Application No.

Attorney Docket No. TI-71040

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). <u>61/500,417; 61/500,374; and 61/500,356</u>, all filed on <u>23 June 2011</u>;

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	BI-PHASE COMMUNICATION DEMODULATION TECHNIQUES		
NONPROVISIONAL APPLICATION NO.	13/337,674	FILING DATE	27-December 2011

SIGNATURE OF INVENTOR	Erni aton
PRINTED NAME OF INVENTOR	Eric Gregory Oettinger
DATE	12/19/2011
RESIDENCE (CITY AND STATE)	Rochester, MN

After recording, return Assignment to:

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

> PATENT REEL: 027498 FRAME: 0421

RECORDED: 12/27/2011