503500551 09/29/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3547176

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PEEYOOSH NITIN MIRAJKAR	09/28/2015
JAGDISH CHAND GOYAL	09/28/2015
SANKARAN ANIRUDDHAN	09/26/2015

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14868785	

CORRESPONDENCE DATA

Fax Number: (214)567-2228

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.

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 214-479-1243 Email: uspto@ti.com

Correspondent Name: TEXAS INSTRUMENTS INCORPORATED

Address Line 1: P O BOX 655474, M/S 3999 Address Line 4: DALLAS, TEXAS 75265

ATTORNEY DOCKET NUMBER:	TI-75171
NAME OF SUBMITTER:	ERIC HIGHMAN
SIGNATURE:	/Eric Highman/
DATE SIGNED:	09/29/2015

Total Attachments: 5

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PATENT 503500551 REEL: 036680 FRAME: 0234

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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). 62/064,066 , filed October 15, 2014

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	METHOD AND APPARATUS TO RENDER LINES ON A DISPLAY SCREEN		
NONPROVISIONAL APPLICATION NO.	14/867,449 FILING DATE September 28, 2015		
			and the second
SIGNATURE OF INVENTOR	cu jette		
PRINTED NAME OF INVENTOR	Michel Georges Stella		
DATE	9/23/2015		
RESIDENCE (CITY AND STATE)	6032 Daven Oaks Drive Dallas, Texas, 75248 US		

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.

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	PHASE FREQUENCY DETECTOR (PFD) CIRCUIT WITH IMPROVED LOCK TIME		
NONPROVISIONAL APPLICATION NO.	14/868,785	FILING DATE	September 29, 2015

SIGNATURE OF INVENTOR	6 margan-
PRINTED NAME OF INVENTOR	Peeyoosh Nitin Mirajkar
DATE	28/09/2015
RESIDENCE (CITY AND STATE)	Flat No. B-2/3, Nikam Park, Devkar Panand Kolhapur, 416012, Maharashtra India

SIGNATURE OF INVENTOR	Legalish abarel
PRINTED NAME OF INVENTOR	Jagdish Chand Goyal
DATE	
RESIDENCE (CITY AND STATE)	#301 Butterfly Apartments, Mariayappa Layout, Panathur Main Road, Kadubeesanahalli Bangalore, 560103, Karnataka India

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Sankaran Aniruddhan
DATE	
RESIDENCE (CITY AND STATE)	New No. 46, Teachers Colony Adyar Chennai, 600020, Tamil Nadu India

Assignee agrees and accepts the assignment

TEXAS INSTRUMENTS INCORPORATED

Ву:	ni masana naur
After recording, return Assignment to:	Texas instruments incorporated PO Box 655474, M/S 3999

ASSIGNMENT

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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.

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PRINTED NAME OF INVENTOR	Peeyoosh Nitin Mirajkar
DATE	
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	TX 2x and	Page 2
SIGNATURE OF INVENTOR		A-30-1
PRINTED NAME OF INVENTOR	Jagdish Chand Goyal	
DATE		
RESIDENCE (CITY AND STATE)	#301 Butterfly Apartments, Mariayappa Layout, Panathur Main Road, Kadubeesanahalli Bangalore, 560103, Karnataka India	100 to

SIGNATURE OF INVENTOR	S.Anill-	and the second s
PRINTED NAME OF INVENTOR	Sankaran Aniruddhan	and the second s
DATE	26 September 2015	And the Control of th
RESIDENCE (CITY AND STATE)	New No. 46, Teachers Colony Adyar Chennal, 600020, Tamil Nadu India	The second secon

Assignee agrees and accepts the assignment

TEXAS INSTRUMENTS INCORPORATED

RECORDED: 09/29/2015

fter recording, return Assignment to:	Texas instruments incorporated PO Box 655474, M/S 3999 Dallas, TX 75265