

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Kumaran Vijayasankar</td> <td>08/23/2012</td> </tr> <tr> <td>Ramanuja Vedantham</td> <td>08/23/2012</td> </tr> <tr> <td>Tarkesh Pande</td> <td>08/23/2012</td> </tr> <tr> <td>Il Han Kim</td> <td>08/23/2012</td> </tr> </tbody> </table>		Name	Execution Date	Kumaran Vijayasankar	08/23/2012	Ramanuja Vedantham	08/23/2012	Tarkesh Pande	08/23/2012	Il Han Kim	08/23/2012
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Ramanuja Vedantham	08/23/2012										
Tarkesh Pande	08/23/2012										
Il Han Kim	08/23/2012										
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											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13593159</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13593159						
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Application Number:	13593159										
CORRESPONDENCE DATA											
Fax Number:	9726649606										
Phone:	214-479-1156										
Email:	uspto@ti.com										
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>											
Correspondent Name:	TEXAS INSTRUMENTS INCORPORATED										
Address Line 1:	P O BOX 655474										
Address Line 2:	M/S 3999										
Address Line 4:	DALLAS, TEXAS 75265										
ATTORNEY DOCKET NUMBER:	TI-71351										
NAME OF SUBMITTER:	Rodney M. Anderson										
Total Attachments: 2 source=71351_assign#page1.tif source=71351_assign#page2.tif											

CH \$40.00 13593159

PATENT

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. 61/526,769, filed August 24, 2011.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application(s) and all patents which may be granted therefore, and all divisions, reissues, substitutions, continuations, and extensions thereof, and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the said TEXAS INSTRUMENTS INCORPORATED, as assignee of my entire right, title and interest.

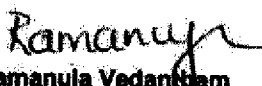


I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the Paris Convention for the Protection 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 patent 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.

IN WITNESS WHEREOF, I hereunto set hand and seal this day and year:

TITLE OF INVENTION	PHASE DETECTION IN POWER LINE COMMUNICATION SYSTEMS
SIGNATURE OF INVENTOR AND NAME	 Kumaran Vijayasankar
DATE	08/23/2012
RESIDENCE (CITY AND STATE)	7421 Frankford Road, Apt. 1622 Dallas, TX 75252

IN WITNESS WHEREOF, I hereunto set hand and seal this day and year,

TITLE OF INVENTION	PHASE DETECTION IN POWER LINE COMMUNICATION SYSTEMS
SIGNATURE OF INVENTOR AND NAME	 Ramanuja Vedantham
DATE	08/23/2012
RESIDENCE (CITY AND STATE)	959 Pelican Drive Allen, TX 75013
SIGNATURE OF INVENTOR AND NAME	 Tarkesh Panda
DATE	Aug - 23 - 2012
RESIDENCE (CITY AND STATE)	5454 Amesbury Drive, Apt. 602 Dallas, TX 75206
SIGNATURE OF INVENTOR AND NAME	 Kim Il Han
DATE	8-23-2012
RESIDENCE (CITY AND STATE)	15190 Prestonwood Blvd., Apt. 637 Dallas, TX 75248

After recording, return Assignment to:

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