

07-16-1998

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To the Honorable Commissioner of Patents, 100766051 *as original documents or copy thereof.*

1. Name of conveying party(ies):
Keith L. Guring
Alan Gatherer
6.24.98
Additional name(s) attached? Yes No

2. Name and Address of receiving party(ies):
Name: Texas Instruments Incorporated
Address: P.O. Box 655474 M/S 3999
City: Dallas
State: TX Zip: 75265
Additional name(s) attached? Yes No

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
Execution Date: June 22, 1998

4. Application number(s) or patent number(s).
 This document is being filed together with a new application.
Execution date of the application: June 22, 1998
Title: **CENTRAL OFFICE LINE CARD WITH CODE RECOGNITION FOR INCREASING DATA RATES OVER PSTN**
Docket No.: TI-26641
09/103496

A. Patent Application No.(s)
Additional numbers attached? Yes No
B. Patent No.(s)
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Warren Franz
Address: Texas Instruments Incorporated
P.O. Box 655474, M/S 3999
City: Dallas
State: TX Zip: 75265

6. Number of applications and patents involved 1
7. Amount of fee enclosed or authorized to be charged: \$40
8. Deposit account number (Attach two copies of this form if paying by deposit account!): 20-0668

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9. Statement and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Arthur I. Navarro

June 23, 1998
Date

07/16/1998 DC0000013 200648 09103496 40.00 PH

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, the said application having been executed on the date set forth below; and

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with its principal office at 13500 North Central Expressway, Dallas, Texas 75265, 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;

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 and all patents which may be granted therefor, 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 International Convention for the Protection of Industrial Property, and of the European Patent Convention, 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	CENTRAL OFFICE LINE CARD WITH CODE RECOGNITION FOR INCREASING DATA RATES OVER PSTN		
SIGNATURE OF INVENTOR AND NAME	<i>Keith L. Quiring</i> Keith L. Quiring	<i>Alan Gatherer</i> Alan Gatherer	
DATE	<i>6-18-98</i>	<i>22nd JUNE 1998</i>	
RESIDENCE (City, County, State)	Dallas, Dallas Texas	Richardson, Collin Texas	
DATE APPLICATION EXECUTED			

After recording return Assignment to:

Texas Instruments Incorporated
P.O. Box 655474, M/S 3999
Dallas, TX 75265