

11-25-2002

FORM PTO-1595

U.S. Department of Commerce
Patent and Trademark Office

TI-34245

102292121

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

- 1) Heng-Chih Lin (10/31/2002)
 2) Baher S. Haroun (11/07/2002)
 3) Tiang Tun Foo (10/31/2002)

NEO
 11-12-02

2. Name and Address of receiving party(ies):

Name: TEXAS INSTRUMENTS INCORPORATED

Address: P.O. Box 655474, MS 3999

City: Dallas

State: TX Zip: 75265

Additional name(s) & address(es) attached? ___ Yes ___X___ No

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 11/12/02

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: October 31, 2002; November 7, 2002; October 31, 2002

4. Application number(s) or patent number(s).

10 292225

☒ This document is being filed together with a new application.

Execution date of the application: October 31, 2002; November 7, 2002; October 31, 2002

Title: Wide Band, Wide Operation Range, General Purpose Digital Phase Locked Loop Architecture

Docket No: TI-34245

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ___ Yes ___X___ No

Additional numbers attached? ___ Yes ___X___ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Peter P. Hernandez
 Texas Instruments Incorporated
 Address: P.O. Box 655474, MS 3999
 City: Dallas
 State: TX Zip: 75265

6. Number of applications and patents involved: ___(1)___

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7. Amount of fee enclosed or authorized to be charged: \$40

8. Deposit Account No: 20-0668 of Texas Instruments Incorporated

11/22/2002 DBYRNE 00000215 200668 10292225

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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.

November 11, 2002

Date

Dwight N. Holmbo
 Dwight N. Holmbo, Reg. No. 36,410

ASSIGNMENT

Page 1 of 1

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

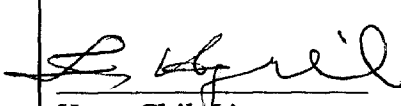
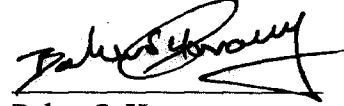

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 7839 Churchill Way, MS 3999, Dallas, Texas 75251, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said 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 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 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	Wide Band, Wide Operation Range, General Purpose Digital Phase Locked Loop Architecture		
SIGNATURE OF INVENTOR AND NAME	 Heng-Chih Lin	 Baher S. Haroun	 Tiang Tun Foo
DATE	10/31/2002	11/7/02	10/31/02
RESIDENCE (City, County, State)	8412 Halkin Dr. Plano, TX 75024	607 Easton Lane Allen, TX 75002	614 Baltusrol Circle Garland, TX 75044
DATE APPLICATION EXECUTED	10/31/2002	11/7/02	10/31/02