

12-23-1999



FORM PTO-1595

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U.S. Department of Commerce (PRIVATE)
Patent and Trademark Office

TI-24982 **MRD** 12.3.99

PATENTS ONLY

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

10678 U.S. PTO
09/454933
12/03/99

1. Name of conveying party(ies):

- 1) Qinghua Chen
- 2) Khodor Elansha
- 3) Kishore Mishra

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

3. Nature of Conveyance:

- X Assignment ___ Merger
- ___ Security Agreement ___ Change of Name
- ___ Other _____

Execution Date: December 21, 1998, January 12, 1999 and January 21, 1999

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

09 | 454 933

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

Execution date of the application: December 21, 1998 and January 12, 1999 and January 21, 1999

Title: Duty Cycle Optimized Prescaler

Docket No: TI-24982

A. Patent Application No.(s)
XX/XXX,XXX

B. Patent No.(s)
X,XXX,XXX

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: Mark E. Courtney
 Texas Instruments Incorporated
 Address: P.O. Box 655474, MS 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

1 x \$40 = \$40

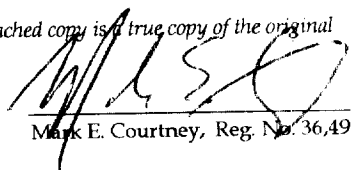
8. Deposit Account No: 20-0668 of Texas Instruments Incorporated

DO NOT USE THIS SPACE

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.

December 3, 1999
Date


Mark E. Courtney, Reg. No. 36,491

12/23/1999 TTON11 00000006 200668 09454933

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PATENT
REEL: 010448 FRAME: 0654

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

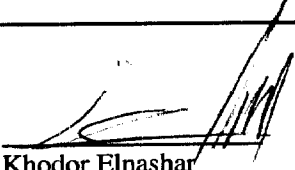
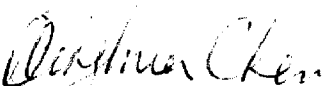
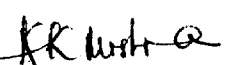
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 7839 Churchil Way, MS 3999, Dallas, Texas 75251, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issued 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	DUTY CYCLE OPTIMIZER PRESCALER		
SIGNATURE OF INVENTOR AND NAME	 Khodor Elnashar	 Qinghua Chen	 Kishore Mishra
DATE	1/21/99	12/31/98	1/12/99
RESIDENCE (City, County, State)	10307 Bernardin Dallas, Texas 75243	4093 W. Rincon Ave. Campbell, CA 95008	1020 Folsom Ranch Dr. #102 Folsom CA 95630
DATE APPLICATION EXECUTED	1/21/99	12/31/98	1/12/99

After recording returning Assignment to:

Texas Instruments Incorporated
P.O. BOX 655474, M/S 3999
DALLAS, TX 75265