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10/01 FORM PTO-1595

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

1. Name of conveying party(ies)
John BottrillAdditional name(s) of conveying party(ies)
attached? [] Yes [X] No

2. Name and address of receiving party(ies)

Name: TEXAS INSTRUMENTS INCORPORATED

Street Address: 7839 Churchill Way

M.S. 3999

City: Dallas State: Texas Zip 75251

Country: United States

Additional name(s) & address(es) attached? [] Yes
[X] No

3. Nature of conveyance:

[X] Assignment [] Merger

[] Security Agreement [] Change of
Name

[] Other

Execution Date: November 12, 2001

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

If this document is being filed together with a new application, the execution date of the
application is November 12, 2001

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? [] Yes [X] No

5. Name and address of party to whom
correspondence concerning document should
be mailed:Weingarten, Schurgin,
Gagnebin & Lebovici LLP
Ten Post Office Square
Boston, Massachusetts 021096. Total number of applications and patents
Involved [1]

7. Total fee (37 CFR 3.41)....\$ 40.00

[X] Enclosed

[] Authorized to be charged to deposit account

8. Deposit account number:

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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.Attorney name: Stanley M. Schurgin
Registration No. 20,979

Signature:

Date: 11/14/01

Total number of pages including cover sheet, attachments, and document: [3]

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

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EXPRESS MAIL NO.

EV 009948092 US
PATENT

REEL: 012320 FRAME: 0781

10979 U.S. PTO
09/990836

11/14/01

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 7839 Churchill Way, M.S. 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 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.

Express Mail Number

8/009949092 US
PATENT

REEL: 012320 FRAME: 0782

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

TITLE OF THE INVENTION	A PRE-ZERO CROSSING SIGNAL GENERATOR FOR SINUSOIDAL VOLTAGES WITH DC OFFSETS SUCH AS TELEPHONE RING VOLTAGES		
SIGNATURE OF INVENTOR AND NAME John Bottrill <i>John Bottrill</i>			
DATE <i>Nov. 12/2001</i>			
RESIDENCE 13 Wintereberry Drive, Amherst, New Hampshire			
SIGNATURE OF WITNESS AND NAME <i>Denise M. Guyette</i> <i>Denise M. Guyette</i>			
DATE <i>11-12-01</i>			
DATE APPLICATION EXECUTED <i>11-12-01</i>			
Application No.			

After recording, return Assignment to:

Weingarten, Schurgin,
Gagnebin & Lebovici LLP
Ten Post Office Square
Boston, MA 02190

LBO/mdm/261581