

05-09-2002

TIL - 32176

FORM PTO-1595



U.S. Department of Commerce
Patent and Trademark Office

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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):

Peter R. Dent, 03/27/2002

04/29/02

Additional name(s) & address(es)
Attached? ___ Yes X No

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

Name: Texas Instruments Incorporated

Address: P. O. Box 655474, M.S. 3999

City: Dallas

State: Texas 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: March 27, 2002

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: March 27, 2002.

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: Ronald O. Neerings
Address: Texas Instruments Incorporated
P. O. Box 655474, M.S. 3999
City: Dallas
State: Texas Zip: 75265

6. Number of applications and patents involved: 1

7. Amount of fee enclosed or authorized to be charged: \$40.00

8. Texas Instruments Incorporated, Account Number: 20-0668

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.

Ronald O. Neerings
Signature

Ronald O. Neerings, Reg. #34,227
Name and Registration Number

4/29/02
Date

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

jc903 U.S. PTO
10/13/02
04/29/02

05/08/2002 DBYRNE 0000012 200668 10135811

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PATENT
REEL: 012863 FRAME: 0185

ASSIGNMENT

WHEREAS, TEXAS INSTRUMENTS LIMITED, (hereinafter **TIL**), a British company of 800 Pavilion Drive, Mail Station 13, Northampton Business Park, Northampton NN4 7YL, United Kingdom and, by operation of English Law, the beneficial owners of all right, title and interest in an invention for which it has filed application in its own name for letters patent in the United Kingdom as 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, Mail Station 3999, Dallas, Texas 75251, USA, is desirous of acquiring the entire right, title and interest in and to the said invention outside of the United Kingdom, and in and to patent applications filed outside the United Kingdom and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, by this Assignment, **TIL** sells and assigns to the said **TEXAS INSTRUMENTS INCORPORATED**, its successors and assigns, the entire right, title and interest in and to the said invention in the U.S.A. and in all other countries outside the United Kingdom and in and to the U.S. patent application identified below and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and the right to file applications and obtain patents in any other country or group of countries, and to claim priority under the terms of the International Convention for the Protection of Industrial Property or any other relevant convention;

TIL hereby authorizes and requests the Commissioner of Patents to issue all U.S. patents for said invention, or patents resulting therefrom, insofar as our interest is concerned to the said **TEXAS INSTRUMENTS INCORPORATED**, as assignee of the entire right, title and interest. **TIL** further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect patent rights, and generally to 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 other than the United Kingdom.

Title: **Convolutional Encoding of Multiple Bits With a Modified Multiplier**

Inventor: **Peter R. Dent**

U.K. Patent Application No. **01310694.3**, Filed: **12/20/2001**

IN WITNESS WHEREOF this Assignment has been executed as set forth below:

Executed for and on behalf of **TEXAS INSTRUMENTS LIMITED**

By: 

Name: MICHAEL COWLES

Title: COMPANY SECRETARY

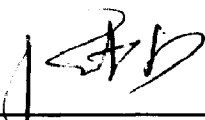
Date: 27th MARCH 2002

ACKNOWLEDGMENT

I, **Peter R. Dent**, inventor of certain new and useful improvements in the above entitled invention for which application for United States Letters Patent has been made, acknowledge that I am a employee of **TEXAS INSTRUMENTS LIMITED**, that my invention was made in the course of my normal or specifically assigned duties as an employee of **TEXAS INSTRUMENTS LIMITED** and that my invention and all rights in it belong to **TEXAS INSTRUMENTS LIMITED** by virtue of Section 39 of the Patents Act 1977.

I hereby further agree that I will communicate to **TEXAS INSTRUMENTS LIMITED** or to its successors, assigns and legal representatives, any facts known to me respecting said invention, and at the expense of **TEXAS INSTRUMENTS LIMITED**, to 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 LIMITED**, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, the said inventor has hereto set his hand and seal:


Peter R. Dent

27/3/02
Date
