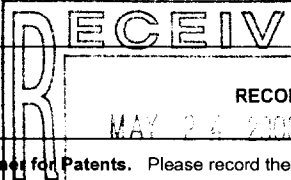


06-16-2000



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FORM PTO-1595

TI-28129

RECOI

U.S. Department of Commerce
Patent and Trademark Office

To the Assistant Commissioner for Patents. Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies):</p> <p>Anthony Rowell 12/20/99 Sean Batty 12/20/99</p> <p><i>MKB 5-24-00</i></p>	<p>2. Name and Address of receiving party(ies):</p> <p>Name: TEXAS INSTRUMENTS INCORPORATED</p> <p>Address: P.O. Box 655474, MS 3999</p> <p>City: Dallas</p> <p>State: TX Zip: 75265</p> <p>Additional name(s) & address(es) attached? ___ Yes ___X___ No</p>
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3. Nature of Conveyance:

Assignment Merger

Security Agreement Change of Name

Other _____

Execution Date: 12/20/99; 12/20/99

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

This document is being filed together with a new application.

Execution date of the application: 12/20/99; 12/20/99

Title: Early Preamble Transmission

Docket No: TI-28129

<p>A. Patent Application No. (s)</p> <p>S.N. 09/459,282</p> <p>Additional numbers attached? ___ Yes ___X___ No</p>	<p>B. Patent No. (s)</p> <p>X,XXX,XXX</p> <p>Additional numbers attached? ___ Yes ___X___ No</p>
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<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: J. Dennis Moore, Reg. No. 28,885 Texas Instruments Incorporated</p> <p>Address: P.O. Box 655474, MS 3999</p> <p>City: Dallas</p> <p>State: TX Zip: 75265</p>	<p>6. Number of applications and patents involved: ___(1)___</p>
<p>7. Amount of fee enclosed or authorized to be charged: \$40</p>	
<p>8. Deposit Account No: 20-0668 (Attach duplicate copy if paying by deposit account)</p>	

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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.

5/22/00
Date

J. Dennis Moore, Reg. No. 28,885

Total Number of Pages Including Cover Sheet, Attachments and Document: 4

06/15/2000 DNGUYEN 00000213 200668 09459282
01 FC:581 40.00 CH

PATENT
REEL: 010847 FRAME: 0434

ASSIGNMENT

WHEREAS, TEXAS INSTRUMENTS LIMITED (ASSIGNOR) a British company with its principal place of business at 800 Pavilion Drive, Northampton Business Park, Northampton NN4 7YL, in the County of Northamptonshire, UNITED KINGDOM and, by operation of English Law, the owners of all right, title and interest in and to an invention for which an application for letters patent has been filed before the European Patent Office as set forth below; and

WHEREAS, TEXAS INSTRUMENTS INCORPORATED (ASSIGNEE), a corporation organised and existing under the laws of the State of Delaware, with its principal office at 7839 Churchill Way, Dallas, TX 75251, UNITED STATES of AMERICA, is desirous of acquiring the entire right, title and interest in and to the said invention for all countries other than the UNITED KINGDOM, and in and to all patent applications filed in respect of all countries other than the UNITED KINGDOM, and in and to all letters patent that may issue in respect of all countries other than the UNITED KINGDOM;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, by this Assignment,

ASSIGNOR sells and assigns to the said **ASSIGNEE**, its successors and assigns:

- (i) the entire right title and interest in and to the said invention in respect of all countries other than the UNITED KINGDOM;
- (ii) the entire right title and interest in and to the said patent application in respect of all countries other than the UNITED KINGDOM;
- (iii) the right to apply for and obtain letters patent or any other form of intellectual property protection for said invention in respect of all countries other than the UNITED KINGDOM, and in and to all intellectual property rights that may be issued in respect thereof;
- (iv) the right to make any new application for letters patent or any other form of intellectual property protection, in respect of all countries other than the UNITED KINGDOM, for any part or parts of the subject-matter of any application for letters patent or specification filed in connection with said invention, and in and to all letters patents that may be issued in respect thereof;

- (v) the right to apply for and obtain any other form of intellectual property rights including patents of improvement, utility models, copyright, and design right in all countries other than the UNITED KINGDOM;
- (vi) the right to claim priority under the terms of Article 4 of the Paris Convention for the Protection of Industrial Property (as amended) or any other relevant international convention;

ASSIGNOR hereby authorises and requests that the national patent offices of all countries to issue letters patent for said invention in respect of all countries other than the UNITED KINGDOM, insofar as **ASSIGNOR's** interest is concerned to the said **ASSIGNEE**, as assignee of the entire right, title and interest in and to said invention in all countries other than the UNITED KINGDOM. **ASSIGNOR** 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 **ASSIGNEE**, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

Title of Invention: **Frame Recovery using FIFO Pointers**
Patent Application Number: **99305183.8**
Filing Date: **30 June 1999**
Inventor(s): (i) **ROWELL, Anthony**
(ii) **BATTY, Sean**

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

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

By: David W. Monk Date: 20/12/99.
Name: MONK, David
Title: MANAGING DIRECTOR, TEXAS INSTRUMENTS LIMITED

ACKNOWLEDGEMENT

We, **Anthony Rowell** and **Sean Batty**, inventor(s) of certain new and useful improvements in the above entitled invention for which an application for letters patent is about to be made to the UNITED STATES PATENT AND TRADEMARK OFFICE (USPTO), acknowledge that we are employees of **TEXAS INSTRUMENTS LIMITED**, that our invention was made in the course of our normal or specifically assigned duties as an employee of **TEXAS INSTRUMENTS LIMITED** and that our invention and all rights in and to it belong to **TEXAS INSTRUMENTS LIMITED** by virtue of English national law.

We hereby further agree that we will communicate to **TEXAS INSTRUMENTS LIMITED** or to its successors, assigns and legal representatives, any facts known to us 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 intellectual property protection for said invention in all countries.

IN WITNESS WHEREOF, each said inventor has hereto set his hand and seal;

A. Rowell 20/12/99
ROWELL, Anthony Date
S. A. Batty 20/12/99
BATTY, Sean Date