

11-20-2003



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FORM PTO-1595

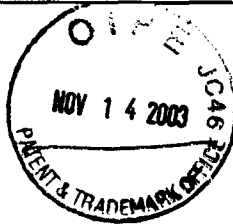
U.S. Department of Commerce
Patent and Trademark Office

TI-30135

To the Ass't Commissioner for Patents. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

- 1) Iain Robertson - Oct. 30, 2003
- 2) Richard Simpson - Nov. 5, 2003
- 3) Michael Harwood - Nov. 4, 2003
- 4) Richard Ward - Oct. 30, 2003
- 5) Andrew Joy - Oct. 31, 2003
- 6) Robert Simpson - November 10, 2003



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 No

3. Nature of Conveyance:

- Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: Oct. 30, 2003, Nov. 5, 2003, Nov. 4, 2003, Oct. 30, 2003, Oct. 31, 2003 and Nov. 10, 2003

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

This document is being filed together with a new application.

Execution date of the application: Oct. 30, 2003, Nov. 5, 2003, Nov. 4, 2003, Oct. 30, 2003, Oct. 31, 2003 and Nov. 10, 2003

Title: IMPROVEMENTS IN OR RELATING TO DATA TRANSMISSION

Docket No: TI-32313

A. Patent Application No.(s)

S.N.: 10/624,699

B. Patent No.(s)

X,XXX,XXX

Additional numbers attached? Yes No

Additional numbers attached? Yes No

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

Name: W. James Brady III
 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

8. Deposit Account No: 20-0668 (No duplicate copy is needed).

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.

11/13/03
Date

W. James Brady III
W. James Brady III, #32088

Total Number of Pages Including Cover Sheet, Attachments and Document: 8

11/20/2003 LMUELLER 00000005 200668 10624699

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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, as of date executed, **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 of Invention: **IMPROVEMENTS IN OR RELATING TO DATA TRANSMISSION**

Inventor: Iain Robertson, Richard Simpson, Michael Harwood, Richard Ward, Andrew Joy, Robert Simpson

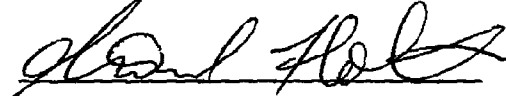
U.K. Patent Application No. 02255101.4 Filed: 22 July 2002

U.S. Application Serial No. 10/624,699 Filed: 22 July 2003

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

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

By: 
Name: MICHAEL HOLT
Title: REGIONAL IP MANAGER EUROPE
Date: 5-11-2003

ACKNOWLEDGMENT

I, IAIN ROBERTSON, 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 or each said inventor has hereto set his hand and seal:


IAIN ROBERTSON

30TH OCT 2003
Date

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ACKNOWLEDGMENT

I, RICHARD SIMPSON, 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.

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



RICHARD SIMPSON

5-11-03

Date

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ACKNOWLEDGMENT

I, MICHAEL HARWOOD, 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.

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



MICHAEL HARWOOD

4 Nov 03

Date

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Page 5

ACKNOWLEDGMENT

I, RICHARD WARD, 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.

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



RICHARD WARD

30-01-03
Date

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Assignment
Page 6

ACKNOWLEDGMENT

I, ANDREW JOY, 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 or each said inventor has hereto set his hand and seal:

A. K. Joy
ANDREW JOY

31st October 2003
Date


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ACKNOWLEDGMENT

I, ROBERT SIMPSON, 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.

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


ROBERT SIMPSON

10th November 2003
Date