

PATENT ASSIGNMENT

Electronic Version v1.1

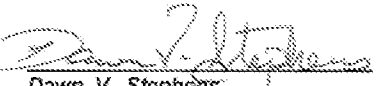
Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | | | |
|--|--------------------------------|--------------------------------|---------------------------|------------------|----------------------|------------|-----------------|------------|-----------------------------|------------|--------------|-------|--|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | | | |
| <table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Texas Instruments Limited</td><td>05/05/2011</td></tr><tr><td>Jonathan Paul Milton</td><td>05/16/2011</td></tr><tr><td>Richard Simpson</td><td>05/05/2011</td></tr><tr><td>Eugenia Carr Cordero Crespo</td><td>05/06/2011</td></tr></tbody></table> | Name | Execution Date | Texas Instruments Limited | 05/05/2011 | Jonathan Paul Milton | 05/16/2011 | Richard Simpson | 05/05/2011 | Eugenia Carr Cordero Crespo | 05/06/2011 | | | |
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| Texas Instruments Limited | 05/05/2011 | | | | | | | | | | | | |
| Jonathan Paul Milton | 05/16/2011 | | | | | | | | | | | | |
| Richard Simpson | 05/05/2011 | | | | | | | | | | | | |
| Eugenia Carr Cordero Crespo | 05/06/2011 | | | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | | | |
| <table border="1"><tr><td>Name:</td><td>Texas Instruments Incorporated</td></tr><tr><td>Street Address:</td><td>P. O. Box 655474</td></tr><tr><td>Internal Address:</td><td>M/S 3999</td></tr><tr><td>City:</td><td>Dallas</td></tr><tr><td>State/Country:</td><td>TEXAS</td></tr><tr><td>Postal Code:</td><td>75265</td></tr></table> | Name: | Texas Instruments Incorporated | Street Address: | P. O. Box 655474 | Internal Address: | M/S 3999 | City: | Dallas | State/Country: | TEXAS | Postal Code: | 75265 | |
| Name: | Texas Instruments Incorporated | | | | | | | | | | | | |
| Street Address: | P. O. Box 655474 | | | | | | | | | | | | |
| Internal Address: | M/S 3999 | | | | | | | | | | | | |
| City: | Dallas | | | | | | | | | | | | |
| State/Country: | TEXAS | | | | | | | | | | | | |
| Postal Code: | 75265 | | | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | | | |
| <table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>13085255</td></tr></tbody></table> | Property Type | Number | Application Number: | 13085255 | | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | |
| Application Number: | 13085255 | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | |
| Fax Number: (972)917-4417 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | | | | | | | | | | | | | |
| Phone: 972-917-4371 | | | | | | | | | | | | | |
| Email: e-austin@ti.com | | | | | | | | | | | | | |
| Correspondent Name: TEXAS INSTRUMENTS INCORPORATED | | | | | | | | | | | | | |
| Address Line 1: P O BOX 655474, M/S 3999 | | | | | | | | | | | | | |
| Address Line 4: DALLAS, TEXAS 75265 | | | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | TI-68534 | | | | | | | | | | | | |
| NAME OF SUBMITTER: | Dawn V. Stephens | | | | | | | | | | | | |
| Total Attachments: 4 source=TI-68534-RecordationCover-Assignment#page1.tif source=TI-68534-RecordationCover-Assignment#page2.tif source=TI-68534-RecordationCover-Assignment#page3.tif source=TI-68534-RecordationCover-Assignment#page4.tif | | | | | | | | | | | | | |

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| FORM PTO-1595 | RECORDATION FORM COVER SHEET PATENTS ONLY | U.S. Department of Commerce Patent and Trademark Office |
| To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof. | | |
| 1. Name of conveying party(ies): Texas Instruments Limited (05/05/2011) Jonathan Paul Milton (05/16/2011) Richard Simpson (05/05/2011) Eugenia Carr Cordero Crespo (05/06/2011) Additional name(s) & address(es) Attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 2. Name and Address of receiving party(ies): Name: <i>Texas Instruments Incorporated</i> Address: <i>P. O. Box 655474, M.S. 3999</i> City: <i>Dallas</i> State: <i>Texas</i> Zip: <i>75265</i> Additional name(s) & address(es) Attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| 3. Nature of Conveyance: <input checked="" type="checkbox"/> <i>Assignment</i> <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: <u>May 5, 2011, May 6, 2011, and May 16, 2011</u> | | |
| 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: A. Patent Application No.(s) B. Patent No.(s) <div style="display: flex; justify-content: space-between;"> 13/085,255 Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </div> | | |
| 5. Name and address of party to whom correspondence concerning document should be mailed: Name: <i>Dawn V. Stephens</i> Address: <i>Texas Instruments Incorporated</i> <i>P. O. Box 655474, M.S. 3999</i> City: <i>Dallas</i> State: <i>Texas</i> Zip: <i>75265</i> | 6. Number of applications and patents involved: <u>1</u> <hr/> 7. Amount of fee enclosed or authorized to be charged: <u>\$40.00</u> 8. Texas Instruments Incorporated, Account Number: <u>20-0668</u> | |
| DO NOT USE THIS SPACE | | |
| 9. Statement and signature. <i>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.</i> <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;">  Dawn V. Stephens </div> <div style="text-align: center;"> <u>44,355</u> Registration Number </div> <div style="text-align: center;"> <u>5/23/2011</u> Date </div> </div> | | |
| Total number of pages including cover sheet, attachments and document: <u>4</u> | | |

ASSIGNMENT

WHEREAS, TEXAS INSTRUMENTS LIMITED, (hereinafter **TIL**), a British company of Northampton Business Park, 800 Pavilion Drive, M/S 13, Northampton NN4 7YL, UK, 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 a place of business at 7839 Churchill Way, Mail Station 3999, Dallas, Texas 75251, 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 there for, 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 Paris 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 there from, 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.

Title of Invention: **Improvements In Or Relating ToClock Recovery**

Inventors: **Jonathan Paul Milton, Richard Simpson, and Eugenia Carr Cordero Crespo**

U.K. Patent Application No.; **GB 1006023.4**, Filed **04/12/2010**

U.S. Application executed on: _____

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

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

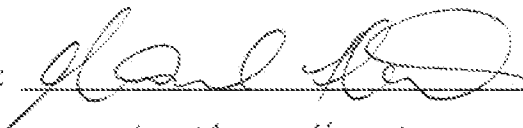
By:  _____

Name: MICHAEL COWLES

Title: MANAGING DIRECTOR

Date: 5th May 2011

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

By:  _____

Name: MICHAEL HOLT

Title: REGIONAL IP MANAGER

Date: 5th May, 2011

ACKNOWLEDGMENT

I, Jonathan Paul Milton, Richard Simpson, and Eugenia Carr Cordero Crespo, inventors of certain new and useful improvements in the above entitled invention for which application for United States Letters Patent is about to be 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.

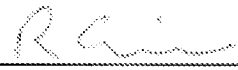
I hereby further agree that I will communicate to **TEXAS INSTRUMENTS LIMITED** or to its successors, assigns and legal representatives, any facts known to me respecting said invention, and at the expense of **TEXAS INSTRUMENTS LIMITED**, to testify in any legal proceedings, sign all lawful papers, execute 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, each said inventor has hereto set his hand and seal:



Jonathan Paul Milton

16/5/11
Date



Richard Simpson

5/5/11
Date



Eugenia Carr Cordero Crespo

6/5/11
Date
