

To: Assignment Branch Page 2 of 3

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FORM PTO-1685		U.S. Department of Commerce Patent and Trademark Office	
TI-63236		103537249	
To the Assistant Commissioner for I		copy thereof	
1. Name of conveying party(ies): Andrew Ian Russell David Foster Lieb		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 ___X___ No	
3. Nature of Conveyance. <input checked="" type="checkbox"/> Assignment      ___ Merger <input type="checkbox"/> Security Agreement      ___ Change of Name <input type="checkbox"/> Other _____ Execution Date: 04/02/2008			
4. Application number(s) or patent number(s). Execution date of the application. Title: A PULSE WIDTH MODULATION ALGORITHM Docket No: TI-63236 A. Patent Application No.(s) 12/062,266      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 this document should be mailed: Name: Dawn V. Stephens Texas Instruments Incorporated Address: P.O.Box 655474, MA 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. 29-8688 (Attach duplicate copy if paying by deposit account);	
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.  <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><u>11/21/08</u> Date</p> </div> <div style="width: 45%; text-align: right;"> <p><u>Gregory R. Muir</u> Gregory R. Muir</p> </div> </div>			
Total Number of Pages including Cover Sheet, Attachments and Document: 2			

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ATTORNEY DOCKET NO.  
TI-63236

**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


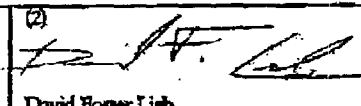
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 7839 Churchill Way, MS 3999, Dallas, Texas 75251, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said 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.

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

TITLE OF INVENTION	A PULSE WIDTH MODULATION ALGORITHM	
SIGNATURE OF INVENTOR AND NAME	(1)  Andrew Ian Russell	(2)  David Foster Lieb
DATE OF SIGNATURE	4/2/08	3/31/08
RESIDENCE (City and State)	Plano, TX	Dallas, TX
DATE APPLICATION EXECUTED		