

09-25-1998



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To the Honorable Commissioner of Patents and Trademarks: Please record the attached documents or copy thereof.

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1. Name(s) of conveying party(ies): <b>Steven D. Krueger</b>  Additional names(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies) Name: <b>TEXAS INSTRUMENTS INCORPORATED</b> Internal Address: <b>M/S 3999</b> Street Address: <b>7839 Churchill Way</b> City: <b>Dallas</b> State: <b>Texas</b> Zip: <b>75251</b> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other  Execution Date: <b>September 15, 1998</b>	
4. Application number(s) or patent number(s):  If the document is being filed together with a new application, the execution date of the application is: <b>September 15, 1998</b>  A. Patent Application No.(s)      B. Patent No.(s)  Additional Numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Names and address of party to whom correspondence concerning document should be mailed:  Name: <b>Robby T. Holland</b> Internal Address: <b>M/S 3999</b>  Street Address: <b>P.O. Box 655474</b> City: <b>Dallas</b> State: <b>Texas</b> Zip: <b>75265</b>	6. Total number of applications and patents involved: <input type="checkbox"/> [1]  7. Total Fee (37 C.F.R 3.41) ..... \$ <b>40.00</b>  <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account.  8. Deposit account number: <b>20-0668</b>  (Attach duplicate copy of the this page if paying by deposit account.)
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.  <u>Stephen L. Levine</u> <u><i>Stephen L. Levine</i></u> <u>9/17/98</u> Name of Person Signing      Signature      Date  Total number of pages including cover sheet, attachments and document: <input checked="" type="checkbox"/> [2]	

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## 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	Circuits, Systems, And Methods With A Memory Interface For Augmenting Precharge Control
SIGNATURE OF INVENTOR AND NAME	 Steven D. Krueger
DATE	September 15, 1998
RESIDENCE (City, County, State)	6449 Norway Road Dallas, Texas 75230 Dallas County
DATE APPLICATION EXECUTED	September 15, 1998

After recording returning Assignment to:

Robby T. Holland, Esq.  
Texas Instruments Incorporated  
P.O. Box 655474, M/S 3999  
Dallas, Texas 75265