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MRD 43-98

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

1. Name(s) of conveying party(ies): Song Wu Additional names(s) of conveying party(ies) attached? ☐ Yes ☒ No	2. Name and address of receiving party(ies) Name: TEXAS INSTRUMENTS INCORPORATED Internal Address: M/S 3999 Street Address: 7839 Churchill Way City: Dallas State: Texas Zip: 75251 Additional name(s) & address(es) attached? ☐ Yes ☒ No
3. Nature of conveyance: ☒ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other Execution Date: April 30, 1998	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: April 30, 1998 A. Patent Application No.(s) B. Patent No.(s) Additional Numbers attached? ☐ Yes ☒ No
5. Names and address of party to whom correspondence concerning document should be mailed: Name: Warren L. Franz Internal Address: M/S 3999 Street Address: P.O. Box 655474 City: Dallas State: Texas Zip: 75265	6. Total number of applications and patents involved: [1] 7. Total Fee (37 C.F.R. 3.41) \$ 40.00 ☐ Enclosed ☒ Authorized to be charged to deposit account. 8. Deposit account number: 20-0668 (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. Stephen L. Levine Name of Person Signing Signature 4/30/98 Date Total number of pages including cover sheet, attachments and document: [2]	

ATTORNEY'S DOCKET NO.

TI-25863

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	Adaptive Frequency Domain Equalizer Circuits, Systems, And Methods For Discrete Multitone Based Digital Subscriber Line Modem
SIGNATURE OF INVENTOR AND NAME	 Song Wu
DATE	4/30/98
RESIDENCE (City, County, State)	4416 Vanderpool Drive Plano, Texas 75024 Collin County
DATE APPLICATION EXECUTED	4/30/98

After recording returning Assignment to:

Warren L. Franz, Esq.
Texas Instruments Incorporated
P.O. Box 655474, M/S 3999
Dallas, Texas 75265

PATENT

RECORDED: 04/30/1998

REEL: 9148 FRAME: 0574