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FORM PTO-1595	A DESIGN WHEN BEING HOURS CHANT STAIN COMMITTEE WHICH COMMITTEE CO	U.S. Department of Commerce Patent and Trademark Office
TI-27138	1011 <u>60764.</u>	Patent and Trademark Office
To the Honorable Commissioner of Patents	and Trademarks. Please record the attached or	iginal documents or copy thereof.
Name of conveying party(ies): Yoshihiro Ogata	9-22-99 Name: TEXAS IN Address: P.O. Box City: Dallas State: TX	Zip: 75265
Nature of Conveyance:	Additional harne(s) & a	ddress(es) attached?Yes _X_No
X_ Assignment Merconstant Character Charac		5 U.S. PTO /400968
4. Application number(s) or patent number(s).		50
X This document is being filed together with	a new application.	ř ·
Execution date of the application: September	er 28, 1998	
Docket No: TI-27138 A. Patent Application No.(s)	RARCHICAL BIT LINE SCHEME B. Patent No.(s)	= 9/400,968
S.N. Additional numbers attached?		•
5. Name and address of party to whom corres document should be mailed: Name: Robby T. Holland Texas Instruments Incorporated Address: P.O. Box 655474, MS 3999 City: Dallas State: TX Zip: 75265		bers attached?YesXNo ons and patents involved:(1)
	7. Amount of fee endo	sed or authorized to be charged: \$40
	8 Denosit Account No	
		20_0668 (Duplicate copies not required)
	DO NOT USE THIS SPACE	: 20-0668 (Duplicate copies not required).

PATENT REEL: 010274 FRAME: 0065

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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, having a place of business at 7839 Churchill Way, MS 3999, Dallas, Texas 75251, P.O. Box 655474, MS 3999, Dallas, Texas 75265, 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 my hand and seal this day and year;

TITLE OF INVENTION	SEMICONDUCTOR DEVICE ARRAY HAVING DENSE MEMORY CELL ARRAY AND HEIRARCHICAL BIT LINE SCHEME
SIGNATURE OF INVENTOR AND NAME	Yoshihiro Ogata (2)
DATE	9-28-98
RESIDENCE (City, County, State)	Plano, Collin, Texas
DATE APPLICATION EXECUTED	9-28-98

After recordation, please return Assignment to:

RECORDED: 09/22/1999

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

> PATENT REEL: 010274 FRAME: 0066