

10-01-1999

FORM PTO-1595



U.S. Department of Commerce
Patent and Trademark Office

101159995

To the Assistant Commissioner for Patents. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Hiroyuki Yoshida
Toshiyuki Nagata
Atsushi Satoh
Shuzoh Shiosaki

Additional name(s) attached? ___ Yes X No

MAN
9-21-99

2. Name and Address of receiving party(ies):

Name: Texas Instruments Incorporated
Address: PO Box 655474, M/S 3999
City: Dallas
State: Texas
Zip: 75265

Additional name(s) & address(es) attached? ___ Yes X No

PTO
09/399841
09/21/99

3. Nature of Conveyance:

X Assignment _____ Merger
_____ Security Agreement _____ Change of Name
_____ Other _____

Execution Date: 06/03/1999

4. Application number(s) or patent number(s).

X This document is being filed together with a new application.
Execution date of the application: 09/28/1998
Title: Semiconductor Memory Device Having Variable Pitch Array
Docket: TI-27022

09/399,841

A. Patent Application No.(s)

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 document should be mailed:

Name: Robby T. Holland
Texas Instruments Incorporated
Address: PO Box 655474, M/S 3999
City: Dallas
State: Texas Zip: 75265

6. Number of applications and patents involved: 1

7. Amount of fee enclosed or authorized to be charged: **\$40**

8. Deposit account number (Attach two copies of this form if paying by deposit account): **20-0668**

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.

9-21-99
Date

[Signature]
Robby T. Holland, Registration No. 33,304

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

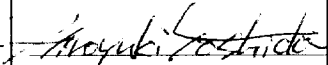
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, having a place of business at 7839 Churchill Way, MS 3999, Dallas, Texas 75251, P.O. Box 655474, MS 3999, Dallas, Texas 75265, is desirous of acquiring my entire right, title and interest 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	<u>SEMICONDUCTOR MEMORY DEVICE HAVING VARIABLE PITCH ARRAY</u>		
SIGNATURE OF INVENTOR AND NAME	(1)  Hiroyuki Yoshida	(2) Toshiyuki Nagata	(3) Atsushi Satoh
DATE	6/3/99		
RESIDENCE (City, County, State)	3-9-14 Tsurukawa Machida-shi Tokyo 195-0061 Japan	1-5-27 Minamisuna Kohtoh-ku Tokyo 136-0076 Japan	457-1-203 Manzai Ryuo-cho Nakakoma-gun Yamanashi 400-0114 Japan
DATE APPLICATION EXECUTED	6/3/99		

After recordation, please return Assignment to:

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

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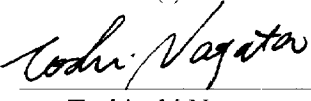
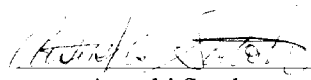
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SIGNATURE OF INVENTOR AND NAME	(1) Hiroyuki Yoshida	(2)  Toshiyuki Nagata	(3)  Atsushi Satoh
DATE		6/2/99	6/2/99
RESIDENCE (City, County, State)	3-9-14 Tsurukawa Machida-shi Tokyo 195-0061 Japan	1-5-27 Minamisuna Kohtoh-ku Tokyo 136-0076 Japan	457-1-203 Manzai Ryuo-cho Nakakoma-gun Yamanashi 400-0114 Japan
DATE APPLICATION EXECUTED		6/2/99	6/2/99

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Dallas, TX 75265

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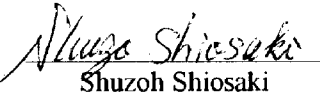
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SIGNATURE OF INVENTOR AND NAME	(1)  Shuzoh Shiosaki	(2)	(3)
DATE	6/3/99		
RESIDENCE (City, County, State)	2-19-21 Koiwadahigashi Tsuchiura-shi Ibaraki 300-0834 Japan		
DATE APPLICATION EXECUTED	6/3/99		

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