

12-10-1999



FORM PTO-1595

U.S. Department of Commerce
Patent and Trademark Office

TI-27644

MP 12-6-99

RECO

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

1. Name of conveying party(ies):

Michiaki Sano

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 No

1999 DEC -6 PM 2:52
OPER/FINANCE

3. Nature of Conveyance:

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

Execution Date: **10/15/99**

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

Execution date of the application: **10/15/99**

Title: **SEMICONDUCTOR MEMORY DEVICE AND MANUFACTURING METHOD THEREOF**

Docket No: **TI-27644**

A. Patent Application No.(s)

S.N. **09/386,121**

B. Patent No.(s)

Additional numbers attached? Yes No

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: William B. Kempler
Senior Corporate Patent Counsel
Texas Instruments Incorporated

Address: P.O. Box 655474, MS 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: **20-0668, Texas Instruments Incorporated**
(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

12/2/99
Date

William B. Kempler, Reg No. 28,228
Person Signing Document

William B. Kempler, Reg. No. 28,228

Total Number of Pages Including Cover Sheet, Attachments and Document: 2

12/09/1999 DNGUYEN 00000196 200668 09386121

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PATENT
REEL: 010424 FRAME: 0265

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

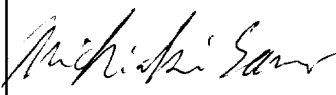
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with its principal office at 7839 Churchill Way, M.S. 3999, Dallas, Texas 75251, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the 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	SEMICONDUCTOR MEMORY DEVICE AND MANUFACTURING METHOD THEREOF		
SIGNATURE OF INVENTOR AND NAME	 Michiaki Sano	-----	-----
DATE	10/15/99	-----	-----
RESIDENCE (CITY AND STATE)	Yamanashi, JAPAN	-----	-----
DATE APPLICATION EXECUTED	10/15/99	-----	-----

After recording, return Assignment to:

William B. Kempler
Texas Instruments Incorporated
P.O. Box 655474, M/S 3999
Dallas, TX 75265