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Attorney Docket No.: TI-25644

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

1. Name of conveying party(ies):

- 1) Masashi Hashimoto
- 2)
- 3)
- 4)
- 5)

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

Name: Texas Instruments Incorporated
 Address: P.O. Box 655474, MS 3999
 City: Dallas, Texas
 State: TX Zip: 75251

Additional name(s) & address(es) attached?

___ Yes X No

3. Nature of Conveyance:

X Assignment

___ Merger

___ Security Agreement

___ Change of Name

___ Change of Address

Execution Date: **January 17, 1999**

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

___ This document is being filed together with a new application.

Execution date of the application: **January 17, 1999**

Title: Semiconductor Memory Device

Docket No: TIJ-25644

A. Patent Application No.(s): **S.N. 09/185,685**

B. Patent No.(s)

Additional numbers attached? ___ Yes X NoAdditional numbers attached? ___ Yes X No

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

Name: William B. Kempler, Reg. No. 28,228
 Senior Corporate Patent Counsel
 Texas Instruments Incorporated
 Address: P.O. Box 655474, MS 3999
 City: Dallas
 State: TX
 Zip: 75251

6. Number of applications and patents

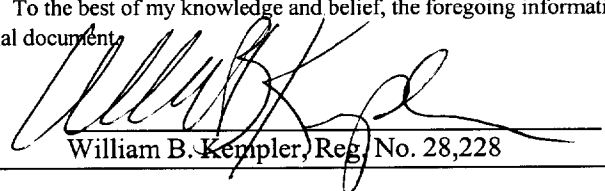
involved: (1)7. Amount of fee enclosed or authorized to be charged: **\$40**8. Deposit Account No: **20-0668**
(Duplicate copies not required).

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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.


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

01/25/99
 Date

PATENT
REEL: 9741 FRAME: 0428

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 has been made, the said application having the serial number and filing date as identified 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 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 and 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 to issue all patents for said invention, or patents 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.

SEMICONDUCTOR MEMORY DEVICE

Title of Invention

MASASHI HASHIMOTO

Inventor(s)

Japanese Application No.: 9(1997)302842 Filed: November 05, 1997

U.S. Application Serial No.: 09/185,685 Filed: November 4, 1998.

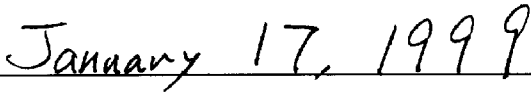
IN WITNESS WHEREOF, I hereunto set hand and seal this day and year:



Masashi Hashimoto

Tsukuba-shi, Onogawa 14-32 Japan

Address



Date