

10-01-1999

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FORM PTO-1595

TIJ-26360

RECORD.



101159587

J.S. Department of Commerce  
Patent and Trademark Office

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

## 1. Name of conveying party(ies):

- (1) Masazumi (nmi) Amagai  
(2) Norihito (nmi) Umehara  
(3) Kiyoshi (nmi) Yajima  
(4) Texas Instruments Japan, Ltd.

mes  
9-27-99

## 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) &amp; address(es) attached? \_\_\_ Yes \_\_\_X\_\_\_ No

## 3. Nature of Conveyance:

- \_\_\_X\_\_\_ Assignment      \_\_\_ Merger  
\_\_\_ Security Agreement      \_\_\_ Change of Name  
\_\_\_ Other \_\_\_\_\_

Execution Date: **Amagai, 08/25/99; Umehara, 09/09/99; Yajima, 08/30.99; Texas Instruments Japan, Ltd., 09/14/99.**

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

Execution date of the application: **Amagai, 08/25/99; Umehara, 09/09/99; Yajima, 08/30.99**Title: **SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF**Docket No: **TIJ-26360**

## A. Patent Application No.(s)

S.N. **09/352,109**

## 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: 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)

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09/30/1999 MTHAI1 00000182 200668 09352109

01 FC:581 40.00 CH

## 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.

Date

9/22/99

  
William B. Kempler, Reg. No. 28,228Total Number of Pages Including Cover Sheet, Attachments and Document: 3

## ASSIGNMENT

**WHEREAS, TEXAS INSTRUMENTS JAPAN, LTD.** (hereinafter **TIJ**), a Japanese company having its headquarters at 24-1 Nishi-Shinjuku 6-Chome, Shinjuku-ku, Tokyo, Japan, under the laws of Japan made application, in its own name, for Letters Patent in Japan in respect of an invention as set forth below;

**WHEREAS, Masazumi Amagai, Norihito Umehara, and Kiyoshi Yajima, (hereinafter INVENTOR)** is the inventor of the said invention;

**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 our entire undivided right, title and interest in and to the said invention outside of Japan, and in and to the U.S. patent application as identified hereinafter and any Letters Patent that may issue thereon;

**NOW, THEREFORE**, for good and valuable consideration, the receipt of which is hereby acknowledged, by this Assignment, **TIJ** and **INVENTOR** sells and assigns to the said **TEXAS INSTRUMENTS INCORPORATED**, its successors and assigns, their entire undivided right, title and interest in and to the said invention in the U.S.A. and all other countries outside Japan; in and to the U.S. patent application as identified below and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and the right to file applications and obtain patents in its own name or its successors or assigns in any said other country or group of countries, and to claim priority under the terms of the International Convention for the Protection of Industrial Property or any other relevant convention;

**TIJ** and **INVENTOR** hereby authorize and request the Commissioner of Patents to issue U.S. patents for said invention, or U.S. patents resulting therefrom, insofar as the interest of **TIJ** and **INVENTOR** is concerned to the said **TEXAS INSTRUMENTS INCORPORATED**, as assignee of their entire undivided right, title and interest.

**TIJ** and **INVENTOR** further agree to communicate to **TEXAS INSTRUMENTS INCORPORATED** or to its successors, assigns and legal representatives, any facts known to **TIJ** and **INVENTOR** respecting the said invention, and at the expense of **TEXAS INSTRUMENTS INCORPORATED**, sign any and all patent applications, assignments, affidavits and other lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, testify in any legal or quasi-legal proceedings and generally do everything possible to aid said **TEXAS INSTRUMENTS INCORPORATED**, its successors, assigns and nominees or its successors or assigns, to obtain and enforce proper patent protection for said invention in all countries outside of Japan.



**SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF**  
Title of Invention

**Masazumi Amagai, Norihito Umehara and Kiyoshi Yajima**

Inventors

Japanese Application No.: 10(1998) - 198534 filed: July 14, 1998

U.S. Application Serial No.: 09/352,109 filed: July 14, 1999

**IN WITNESS WHEREOF**, this Agreement has been executed as set forth below;

Signed at Tokyo on September 14, 1999

by **Texas Instruments Japan, Ltd.**

Name Toshiaki Ikoma  
Toshiaki Ikoma

Title Representative Director and President

Date 9/14/99

and by the **INVENTORS:**

(1) Masazumi Amagai  
Masazumi Amagai

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August 25, 1999  
Date

(2) Norihito Umehara  
Norihito Umehara

3-17-7, #303, Kurakakiuchi, Ibaraki-shi, Osaka 567-0878, Japan

Address

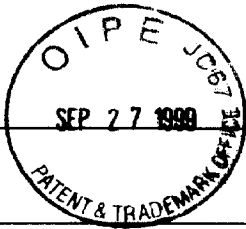
9/9/1999  
Date

(3) Kiyoshi Yajima  
Kiyoshi Yajima

3-22, #606, Ojinishi-machi, Oita-shi, Oita 870-0008, Japan

Address

August 30, 1999  
Date



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REEL: 010273 FRAME: 0430