EXHIBIT B





(12) United States Patent

Tamaki et al.

(10) Patent No.: US 6,794,677 B2

(45) **Date of Patent:** Sep. 21, 2004

(54) SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE AND METHOD FOR FABRICATING THE SAME

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(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35 U.S.C. 154(b) by 168 days.

- (21) Appl. No.: 09/964,868
- (22) Filed: Sep. 28, 2001
- (65) **Prior Publication Data**

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(30) Foreign Application Priority Data

Oc	t. 2, 2000	(JP) 2000-302277
(51)	Int. Cl. ⁷	H01L 29/06 ; H01L 31/0352
(52)	U.S. Cl.	

(56) References Cited

U.S. PATENT DOCUMENTS

5,410,161 A	* 4/1995	Narita 257/41
5,598,010 A	* 1/1997	Uematsu 257/48
5,698,902 A	* 12/1997	Uehara et al 257/773
5,847,421 A	* 12/1998	Yamaguchi 257/207
5,943,256 A	* 8/1999	Shimizu et al 365/145
5,952,698 A	* 9/1999	Wong et al 257/401

FOREIGN PATENT DOCUMENTS

JΡ	60124941	7/1985
JΡ	03180041	8/1991
JΡ	07335844	12/1995
JΡ	10-200109	7/1998
JΡ	2000-150828	5/2000

^{*} cited by examiner

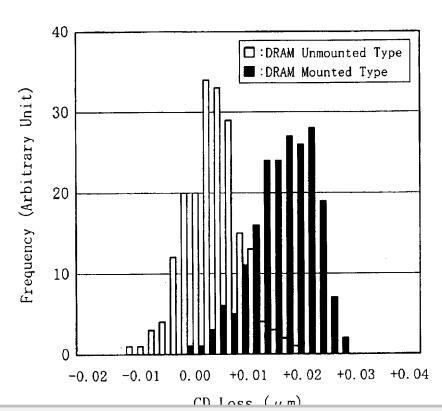
Primary Examiner—Duy-Vu Deo

(74) Attorney, Agent, or Firm—McDermott, Will & Emery

(57) ABSTRACT

Variations in the size of a linear pattern resulting from difference in mask pattern layout are prevented by setting the perimeter of the linear pattern per unit area in a specified range irrespective of the type of a semiconductor integrated circuit device or by adjusting a process condition in accordance with type-to-type difference in the perimeter of the linear pattern per unit area.

6 Claims, 9 Drawing Sheets



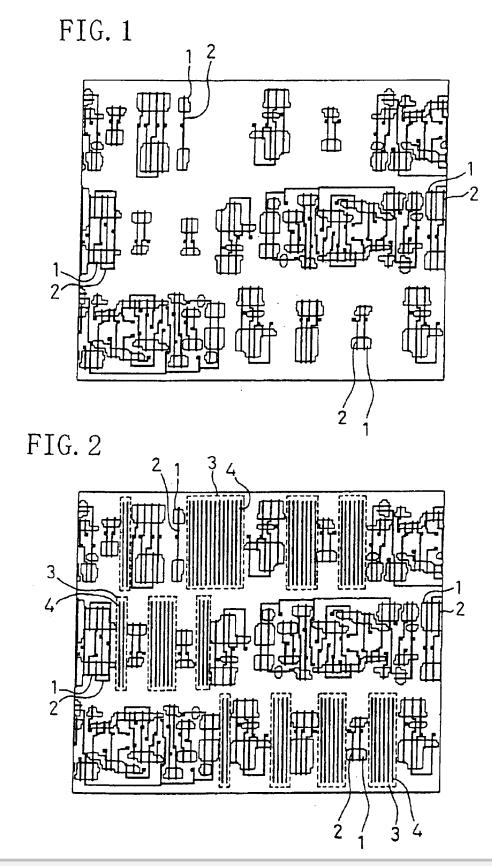


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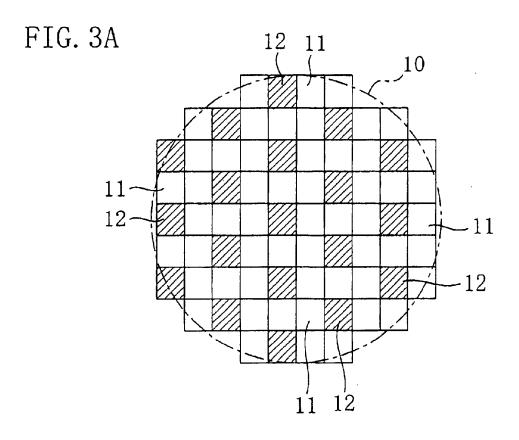


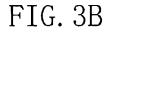
U.S. Patent

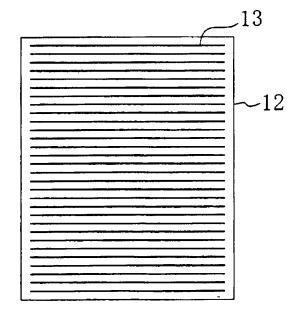
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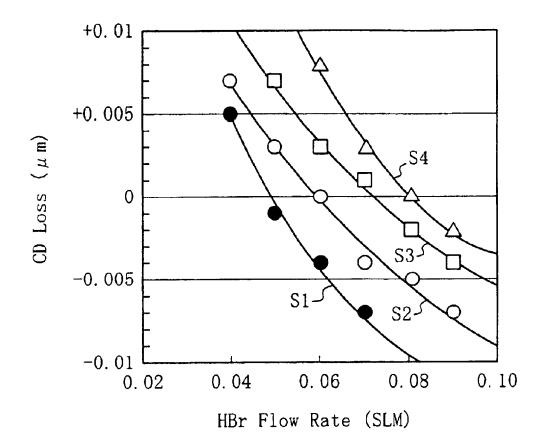
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FIG. 4





DOCKET

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