

United States Patent [19]

Ohsawa

[54] MULTIPLEXER

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- [73] Assignee: Kabushiki Kaisha Toshiba, Kawasaki, Japan
- [21] Appl. No.: 889,441
- [22] Filed: Jul. 8, 1997

Related U.S. Application Data

[62] Division of Ser. No. 763,036, Dec. 10, 1996, Pat. No. 5,701,095, which is a continuation of Ser. No. 393,076, Feb. 23, 1995, abandoned.

[30] Foreign Application Priority Data

Feb. 25, 1994 [JP] Japan 6-028593

- [51] Int. Cl.⁶ G11C 7/00

[56] References Cited

U.S. PATENT DOCUMENTS

4,280,212	7/1981	Ransom et al	327/410
4,645,944	2/1987	Uya	327/410

US005870340A

[11] Patent Number: 5,870,340

[45] Date of Patent: Feb. 9, 1999

4,882,709	11/1989	Wyland 365/189.02
4,888,739	12/1989	Frederick
5,012,126	4/1991	Feldbaumer et al 307/243
5,262,990	11/1993	Mills et al
5,418,480	5/1995	Hastie et al
5,497,347	3/1996	Feng 365/189.02
5,502,683		Marchioro 365/189.02
5,570,320	10/1996	Runas 365/189.02

FOREIGN PATENT DOCUMENTS

0 593 152	4/1994	European	Pat.	Off.	
0 615 251	9/1994	European	Pat.	Off.	

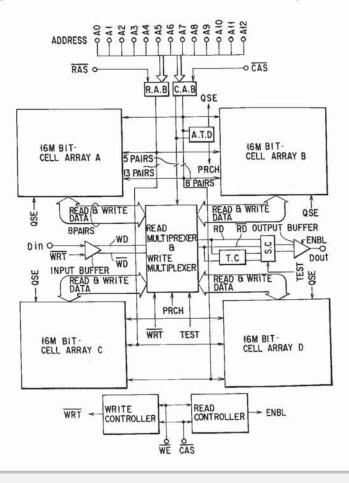
Primary Examiner-Tan T. Nguyen

Attorney, Agent, or Firm-Banner & Witcoff, Ltd.

[57] ABSTRACT

A semiconductor integrated circuit device has a data selecting circuit connected to a first power supply terminal, a precharge circuit, connected to a second power supply terminal, for receiving a precharge signal, and a wiring line connected to a common connection point between the data selecting circuit and the precharge circuit. The data selecting circuit includes at least two, i.e., first and second data transmission circuits. A first input data signal and a first selecting signal are supplied to the first data transmission circuit. A second input data signal and a second selecting signal are supplied to the second data transmission circuit.

25 Claims, 27 Drawing Sheets



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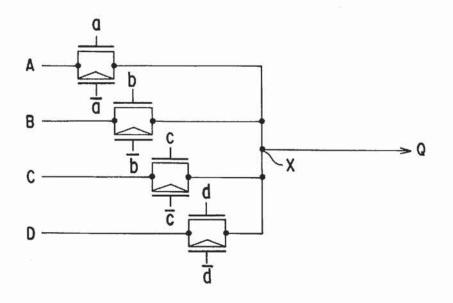


FIG. (PRIOR ART)

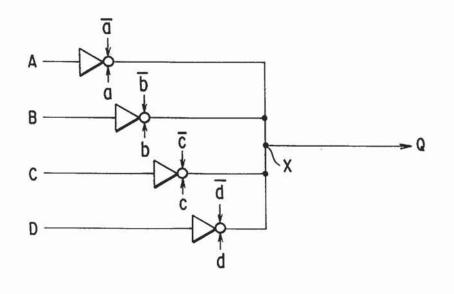
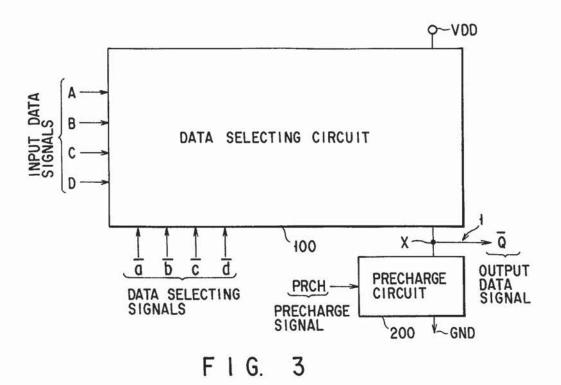
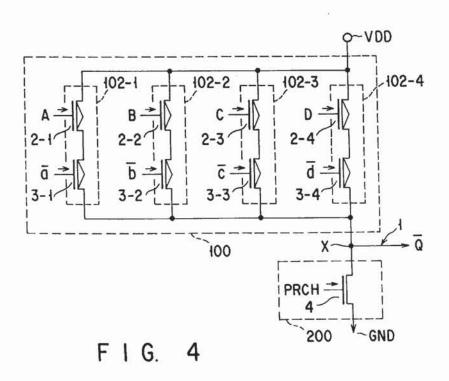


FIG. 2 (PRIOR ART)

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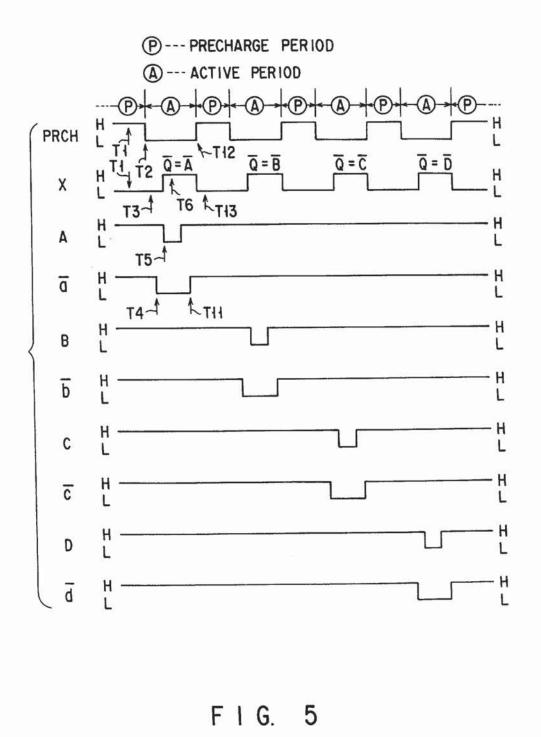


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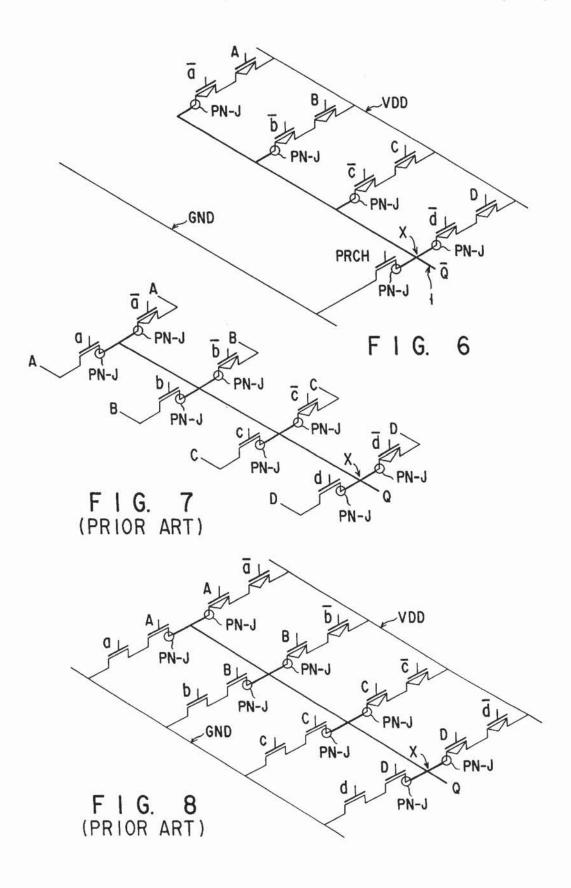
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