



US005870340A

United States Patent [19]

[11] Patent Number: **5,870,340**

Ohsawa

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

- [54] MULTIPLEXER 4,882,709 11/1989 Wyland 365/189.02
- 4,888,739 12/1989 Frederick 365/189.02
- [75] Inventor: Takashi Ohsawa, Yokohama, Japan 5,012,126 4/1991 Feldbaumer et al. 307/243
- 5,262,990 11/1993 Mills et al. 365/189.02
- [73] Assignee: Kabushiki Kaisha Toshiba, Kawasaki, Japan 5,418,480 5/1995 Hastie et al. 327/408
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[21] Appl. No.: 889,441

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[22] Filed: Jul. 8, 1997

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

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.

Primary Examiner—Tan T. Nguyen
Attorney, Agent, or Firm—Banner & Witcoff, Ltd.

Foreign Application Priority Data

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

[57] ABSTRACT

[51] Int. Cl.⁶ G11C 7/00

[52] U.S. Cl. 365/189.02; 365/201; 365/203

[58] Field of Search 365/189.02, 201, 365/203, 189.05, 190

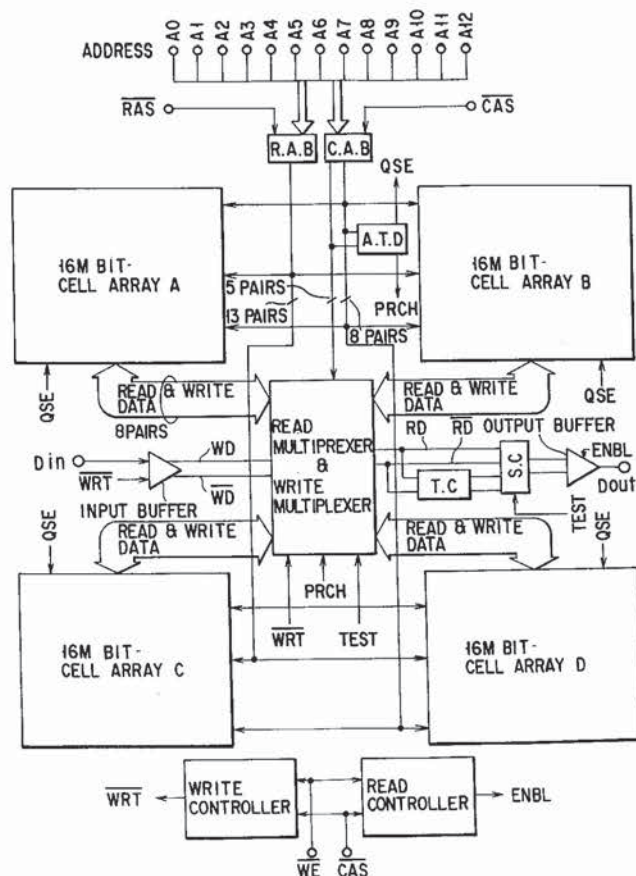
A semiconductor integrated circuit device has a data selecting circuit connected to a first power supply terminal, a precharge circuit, connected to a second power supply terminal, for receiving a precharge signal, and a wiring line connected to a common connection point between the data selecting circuit 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.

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25 Claims, 27 Drawing Sheets



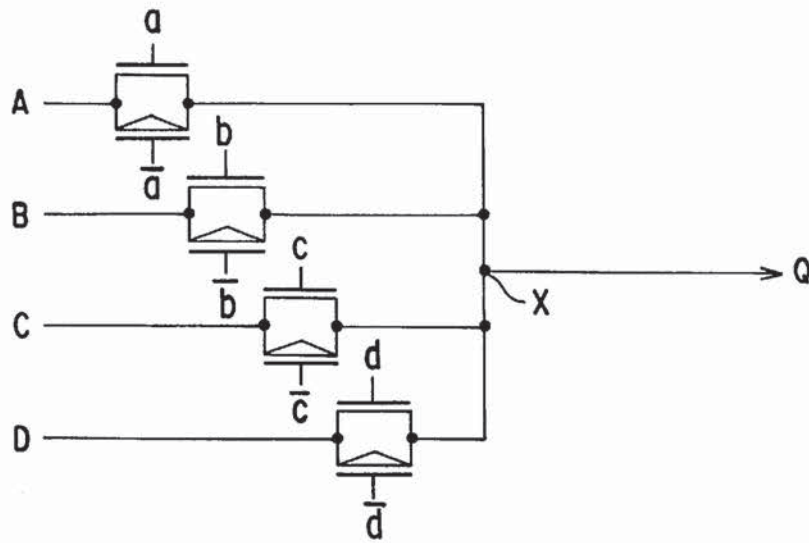


FIG. 1 (PRIOR ART)

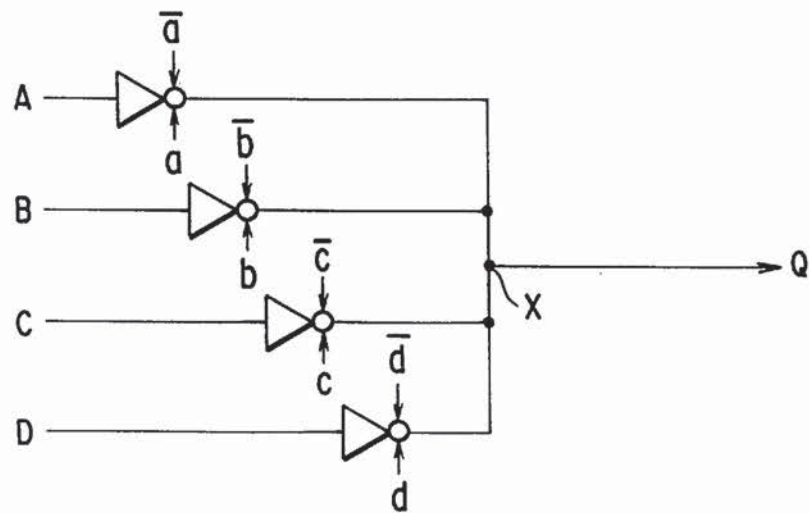


FIG. 2 (PRIOR ART)

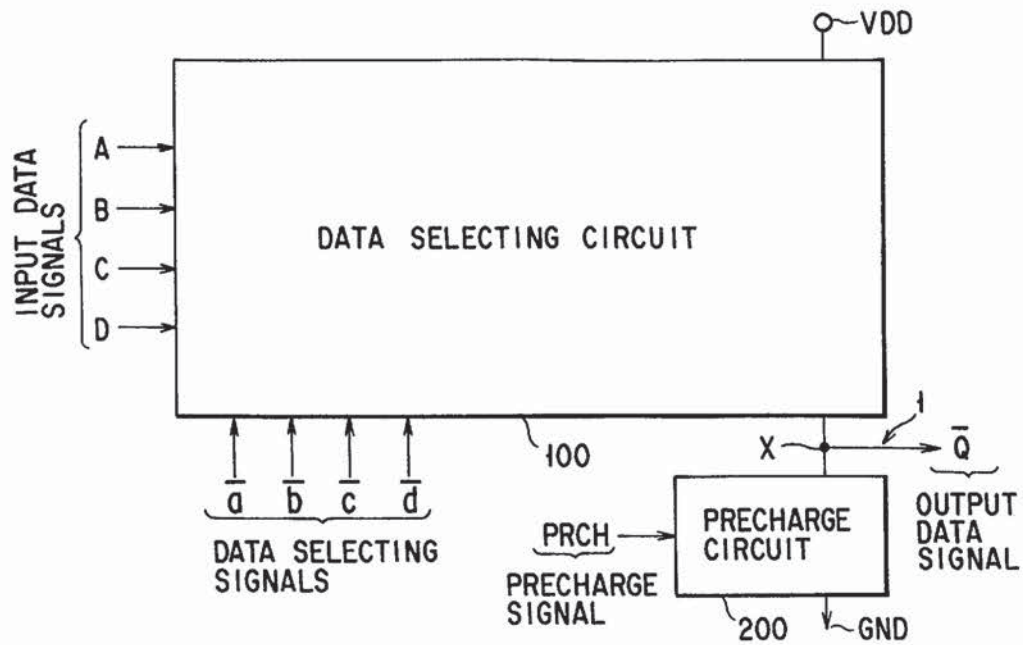


FIG. 3

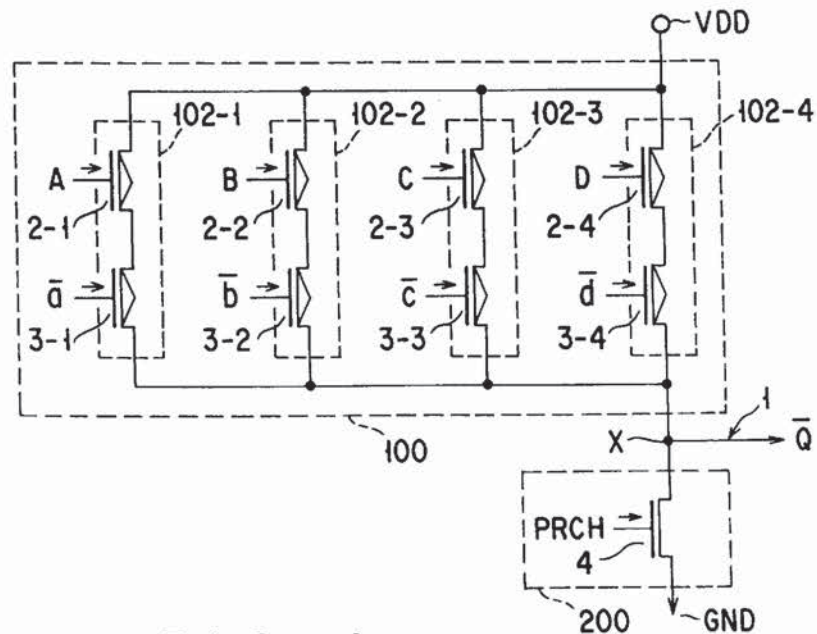


FIG. 4

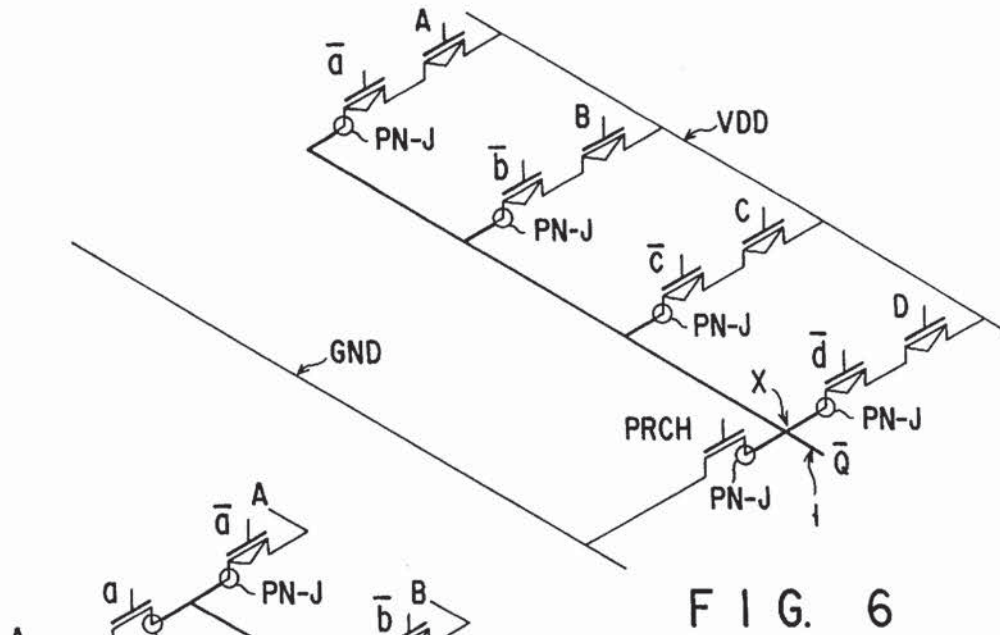


FIG. 6

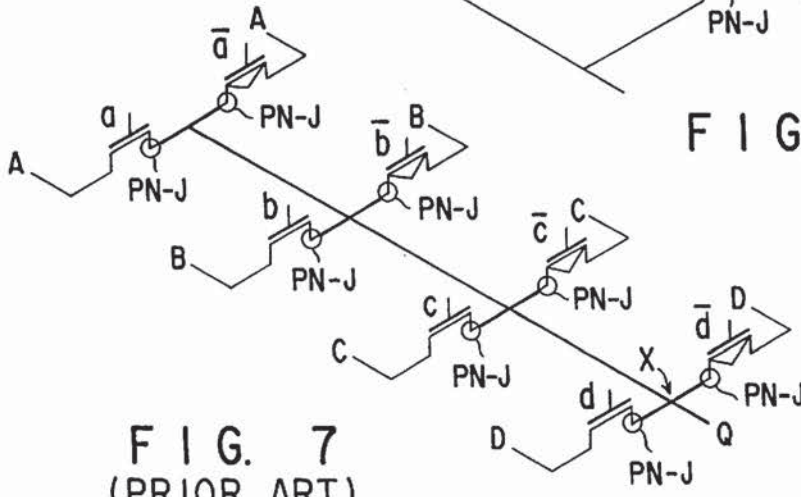


FIG. 7
(PRIOR ART)

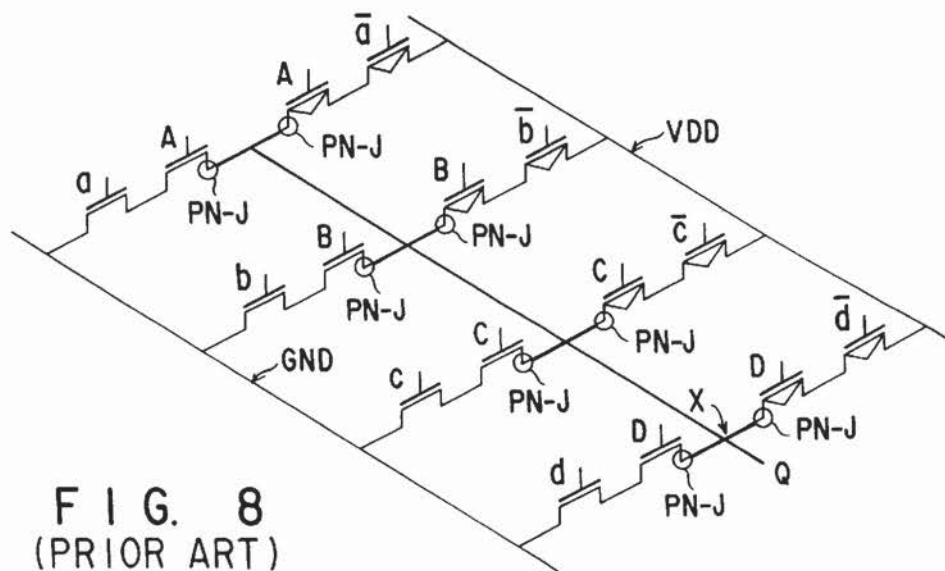


FIG. 8
(PRIOR ART)

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