



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
[75] Inventor: Takashi Ohsawa, Yokohama, Japan	4,888,739	12/1989	Frederick	365/189.02
[73] Assignee: Kabushiki Kaisha Toshiba, Kawasaki, Japan	5,012,126	4/1991	Feldbaumer et al.	307/243
	5,262,990	11/1993	Mills et al.	365/189.02
	5,418,480	5/1995	Hastie et al.	327/408
	5,497,347	3/1996	Feng	365/189.02
	5,502,683	3/1996	Marchioro	365/189.02
	5,570,320	10/1996	Runas	365/189.02

[21] Appl. No.: 889,441

[22] Filed: Jul. 8, 1997

FOREIGN PATENT DOCUMENTS

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.

[30] Foreign Application Priority Data

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

[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

[56] References Cited

U.S. PATENT DOCUMENTS

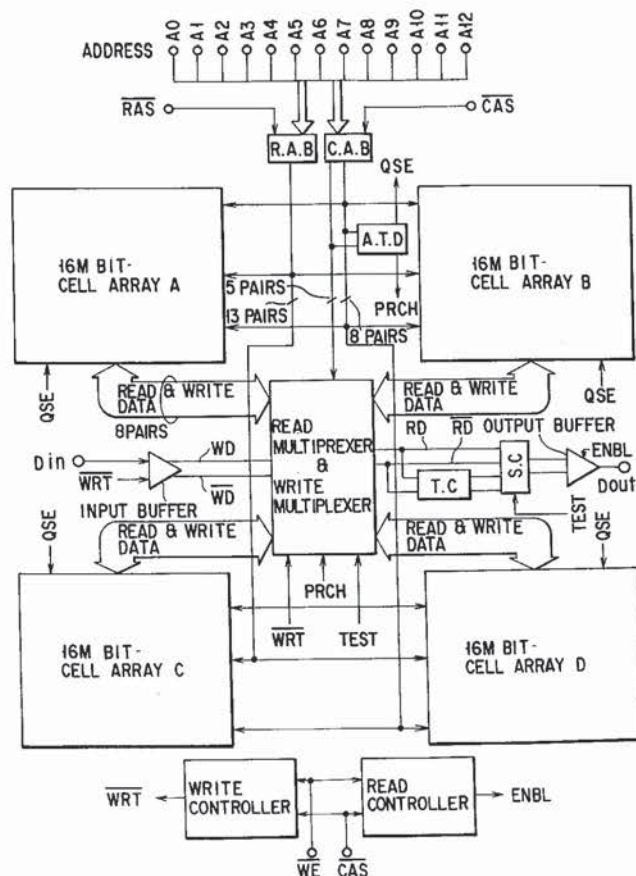
4,280,212	7/1981	Ransom et al.	327/410
4,645,944	2/1987	Uya	327/410

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



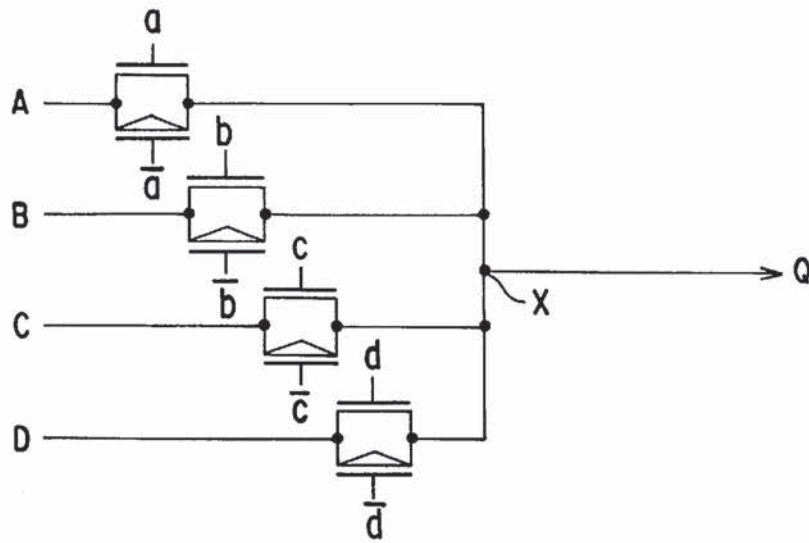


FIG. 1 (PRIOR ART)

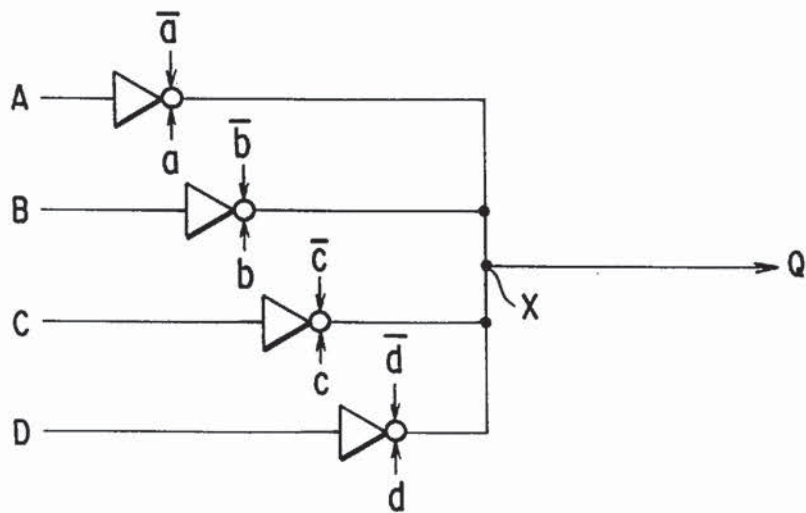


FIG. 2 (PRIOR ART)

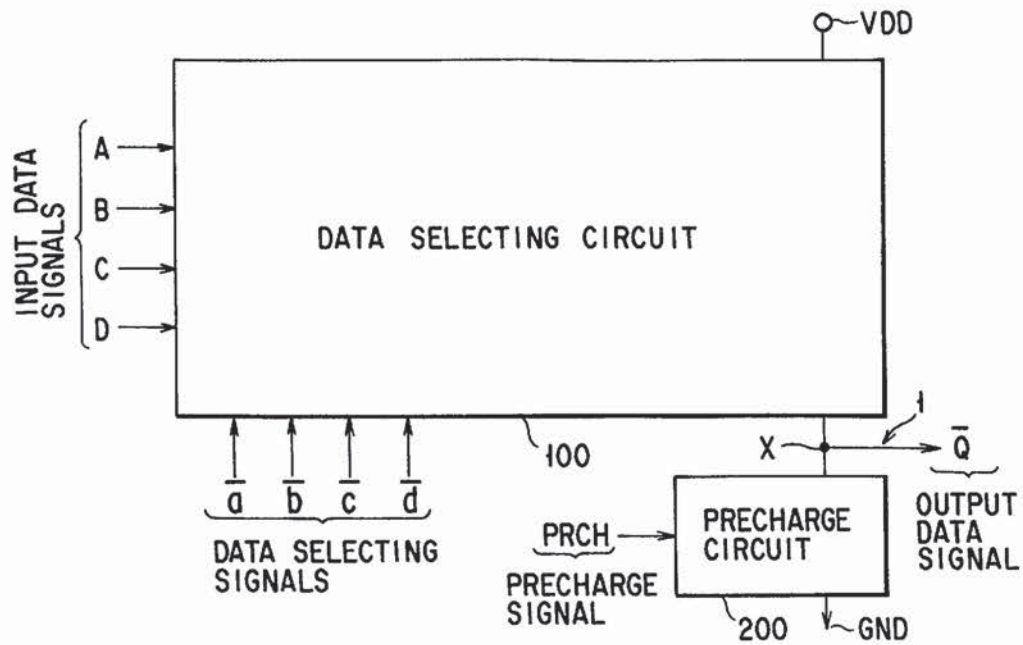


FIG. 3

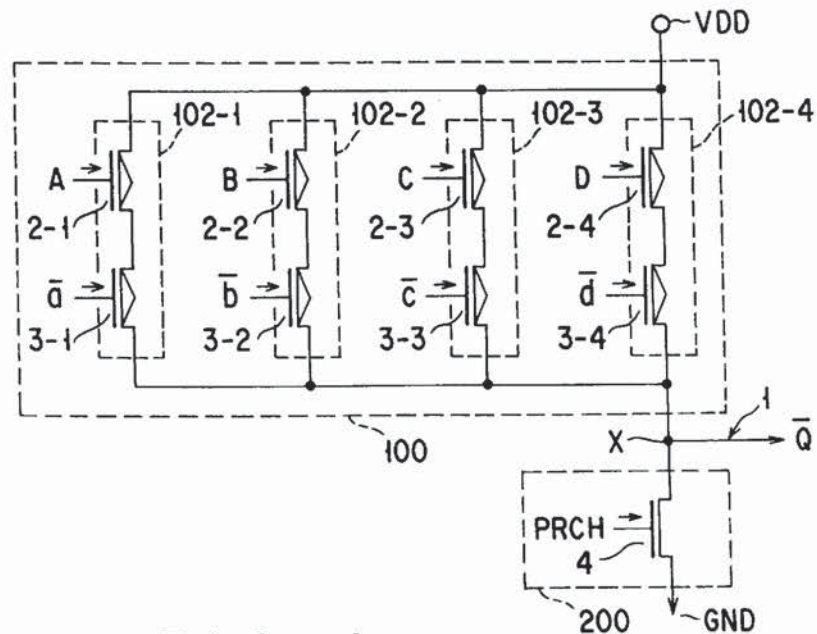


FIG. 4

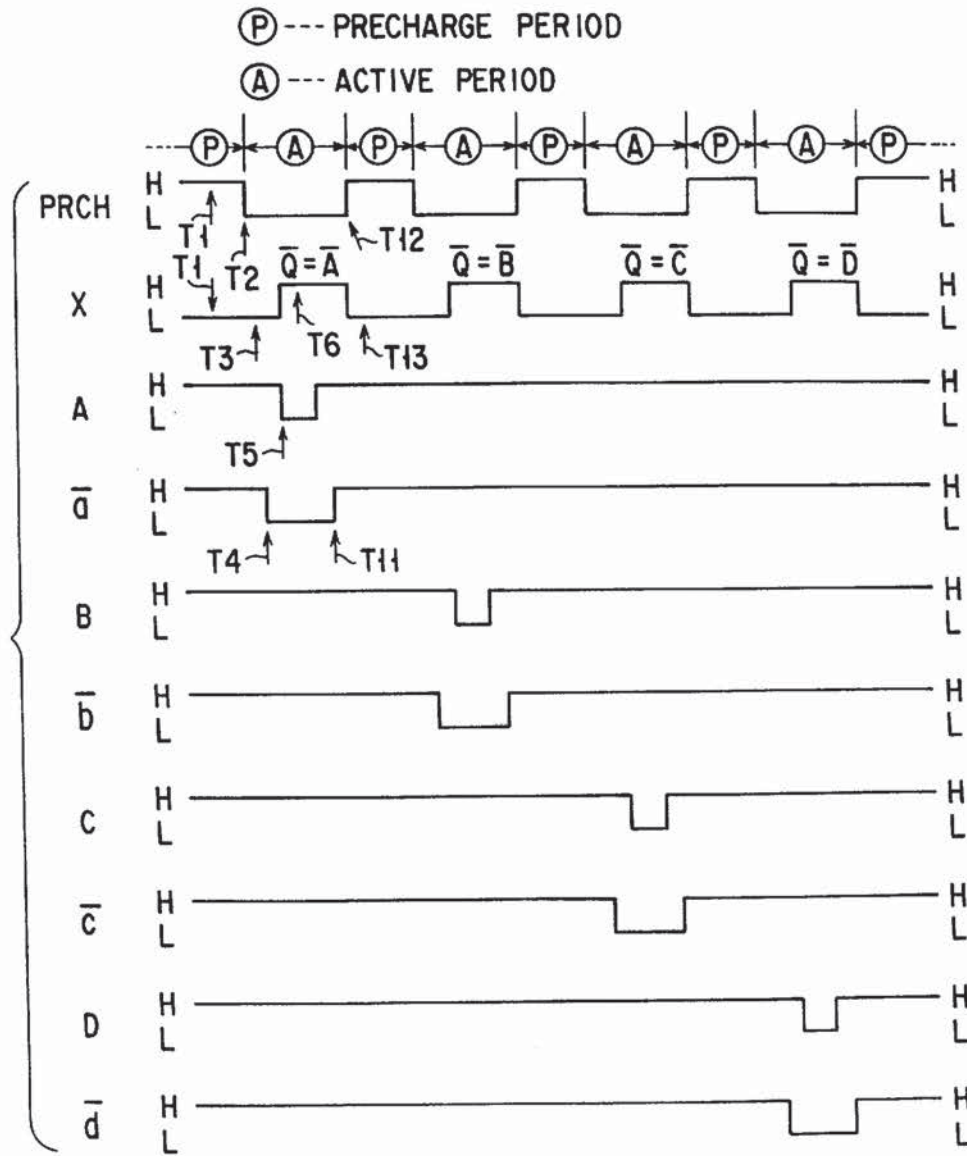


FIG. 5

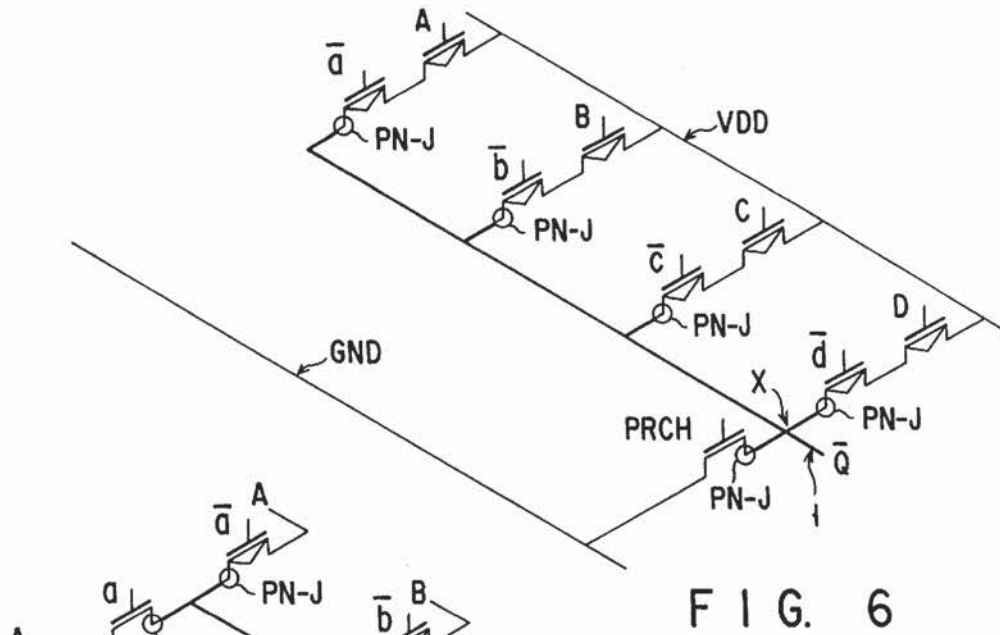


FIG. 6

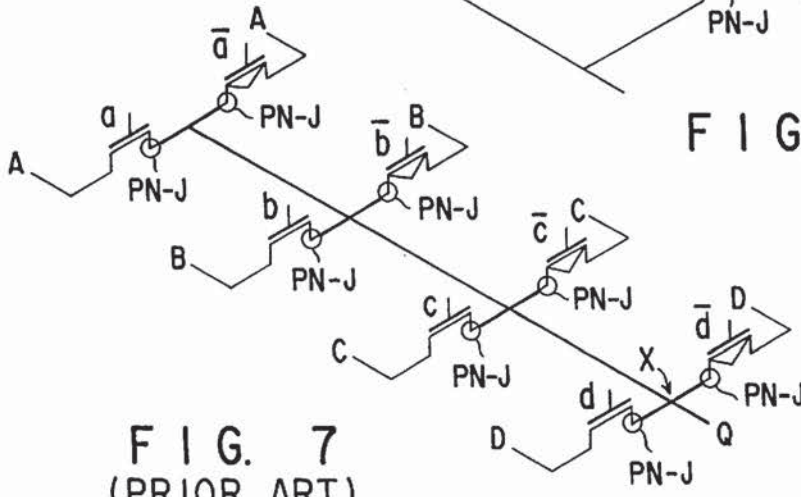


FIG. 7
(PRIOR ART)

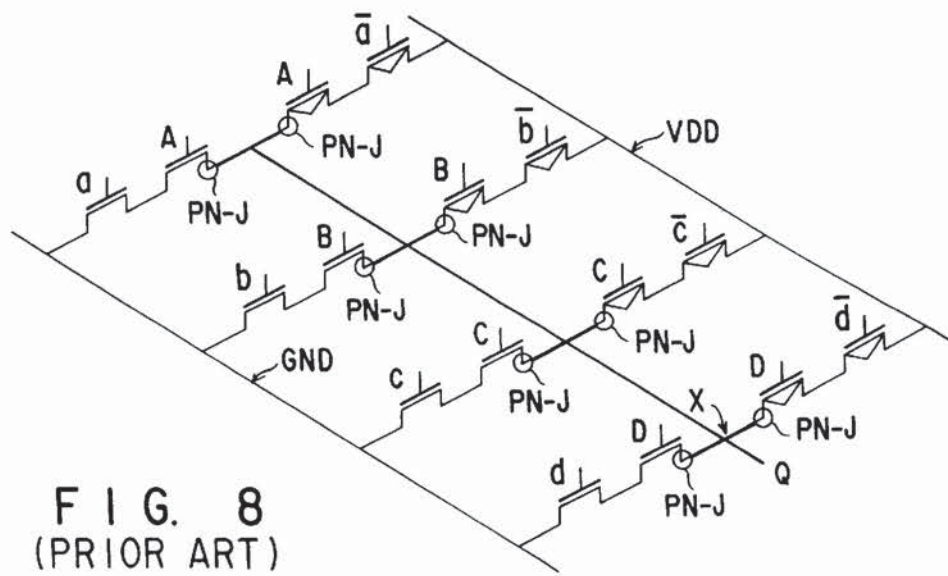


FIG. 8
(PRIOR ART)

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.