

United States Patent [19]

Aug. 17, 1995

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 333,484, Nov. 2, 1994, Pat. No. 5,625,780, which is a continuation-in-part of Ser. No. 171,752, Dec. 21, 1993, Pat. No. 5,426,738, which is a continuation of Ser. No. 785,082, Oct. 30, 1991, abandoned.

340/825.79, 825.83; 395/275, 309, 311,

395/311; 395/312; 326/82; 326/38; 326/41;

Hsieh et al.

[22] Filed:

[51] Int. Cl.6 ..

[58] Field of Search ..

[52] U.S. Cl.

[56]

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[45]	Date of Patent:	Mar. 31, 1998

[54]	PROGRAMMABLE PORT FOR CROSSBAR SWITCH	5,202,593 4/1993 Huang et al
[76]	Inventors, Wen Isi Heish, Chi Sang Harres	5,426,738 6/1995 Hsieh et al
[75]	Inventors: Wen-Jai Hsieh; Chi-Song Horng;	-,,
	Chun Chiu Daniel Wong, all of Palo	5,428,800 6/1995 Hsieh et al
	Alto; Gerchih Chou, San Jose;	5,465,056 11/1995 Hsieh et al 326/41
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		5,625,780 4/1997 Hsieh et al
[73]	Assignee: I-Cube, Inc., Campbell, Calif.	
[21]	Appl. No.: 516,320	Primary Examiner—Edwin C. Holloway, III

... Н04О 1/00

.... 340/826, 827,

312; 326/86, 82, 38, 41, 39

326/86

Attorney, Agent, or Firm-Smith-Hill and Bedell

ABSTRACT

An electronic crossbar switch employs a switch array for tristate, clock enable, clocking or direction control signal.

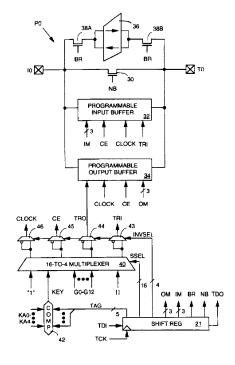
[57]

selectively routing digital and analog signals between its terminals. A separate port for each terminal provides a path for digital and analog signals flowing in and out of the switch. Each port can be configured to operate with or without tristate buffering under control of a tristate control signal, to optionally latch input or output signals in response to clock and clock enable signals, and to buffer signals passing in or out of the switch terminal with or without an input direction control signal. A set of control inputs are provided in common to all ports, allowing an external host to transmit control signals in parallel to each port. Each port may be programmed to select any of its control inputs as its

References Cited

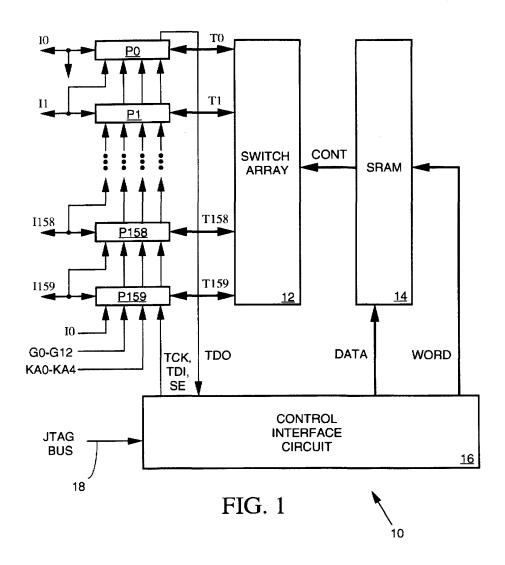
U.S. PATENT DOCUMENTS

12 Claims, 4 Drawing Sheets



IPR2018-01694 **EXHIBIT**





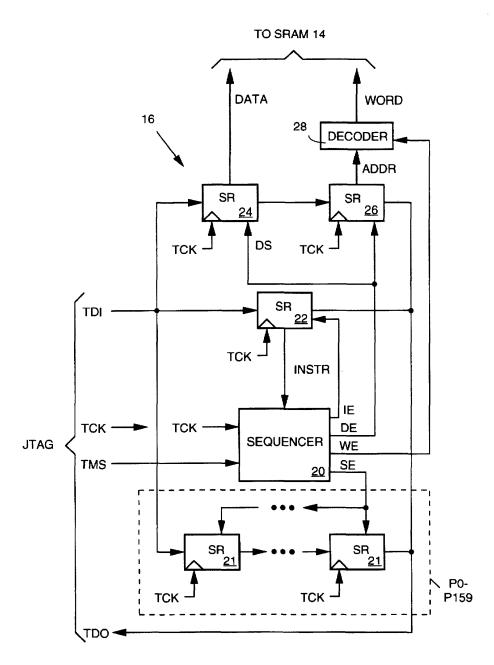


FIG. 2

Mar. 31, 1998

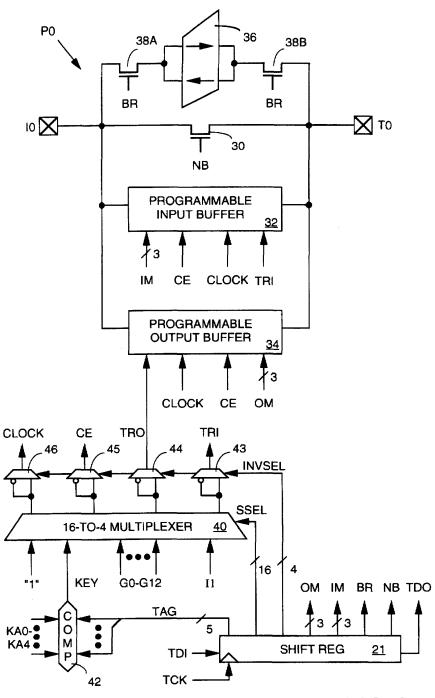
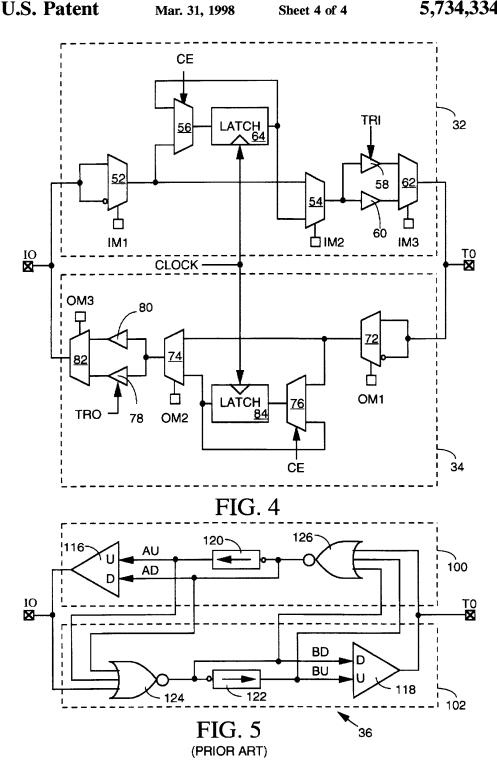


FIG. 3



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