



US00D325900S

**United States Patent** [19]  
Shimizu et al.

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[45] **Date of Patent:** \*\* May 5, 1992

[54] **PROGRAMMABLE CONTROLLER**

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[73] **Assignee:** Koyo Electronics Industries Ltd.,  
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[\*\*] **Term:** 14 Years

[21] **Appl. No.:** 317,698

[22] **Filed:** Mar. 1, 1989

[30] **Foreign Application Priority Data**

Sep. 1, 1988 [JP] Japan ..... 63-34660

[52] **U.S. Cl. .... D13/162**

[58] **Field of Search ..... D13/123, 162, 164, 184;**  
361/380, 383, 393; 364/138, 146, 900, 921, 949

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

D. 278,710	5/1985	Shimizu et al. ....	D13/164
D. 282,253	1/1986	Shimizu et al. ....	D13/164
D. 282,461	2/1986	Shimizu et al. ....	D13/164
D. 292,394	10/1987	Boucher .....	D13/162
D. 296,432	6/1988	Harris et al. ....	D13/162
D. 302,972	8/1989	Boucher .....	D13/164
D. 305,020	12/1989	Naoi et al. ....	D13/164
D. 307,740	5/1990	Shibayama et al. ....	D13/164
4,152,750	5/1979	Bremenour et al. ....	361/383

**OTHER PUBLICATIONS**

Programmable Controller on cover of Control Engineering, Jan., 1988.

Toshiba Programmable Controller on Contents page of Control Engineering, Jan., 1988.

Omron Programmable Controller on p. 111 of Design News, Aug. 22, 1988.

Programmable Controller on p. 6 of Mitsubishi publication IB (NA) 66155A (8804).

Kostac SG-8 Brochure; Jul. 8, 1988 publication.

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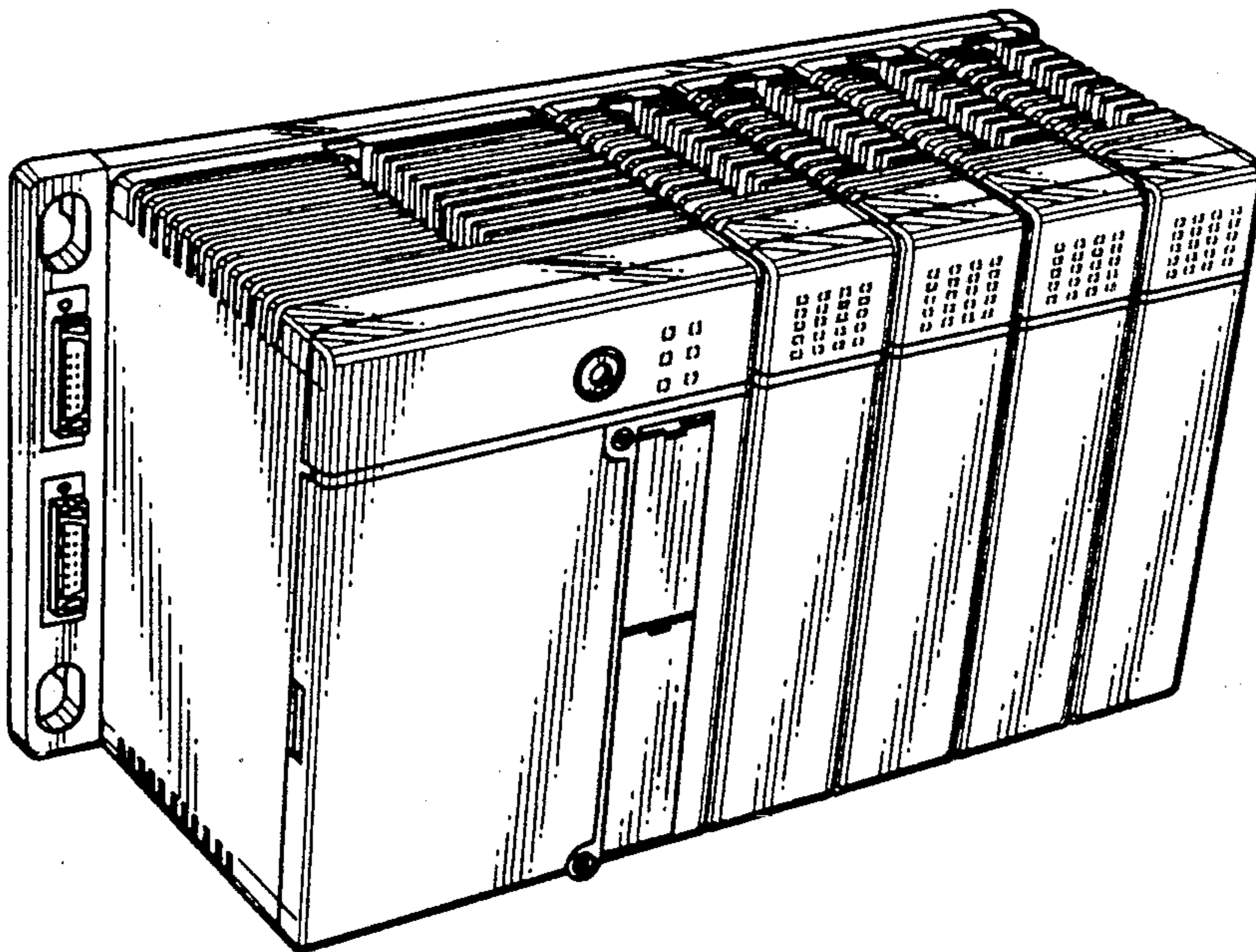
*Attorney, Agent, or Firm*—Sughrue, Mion, Zinn,  
Macpeak & Seas

[57] **CLAIM**

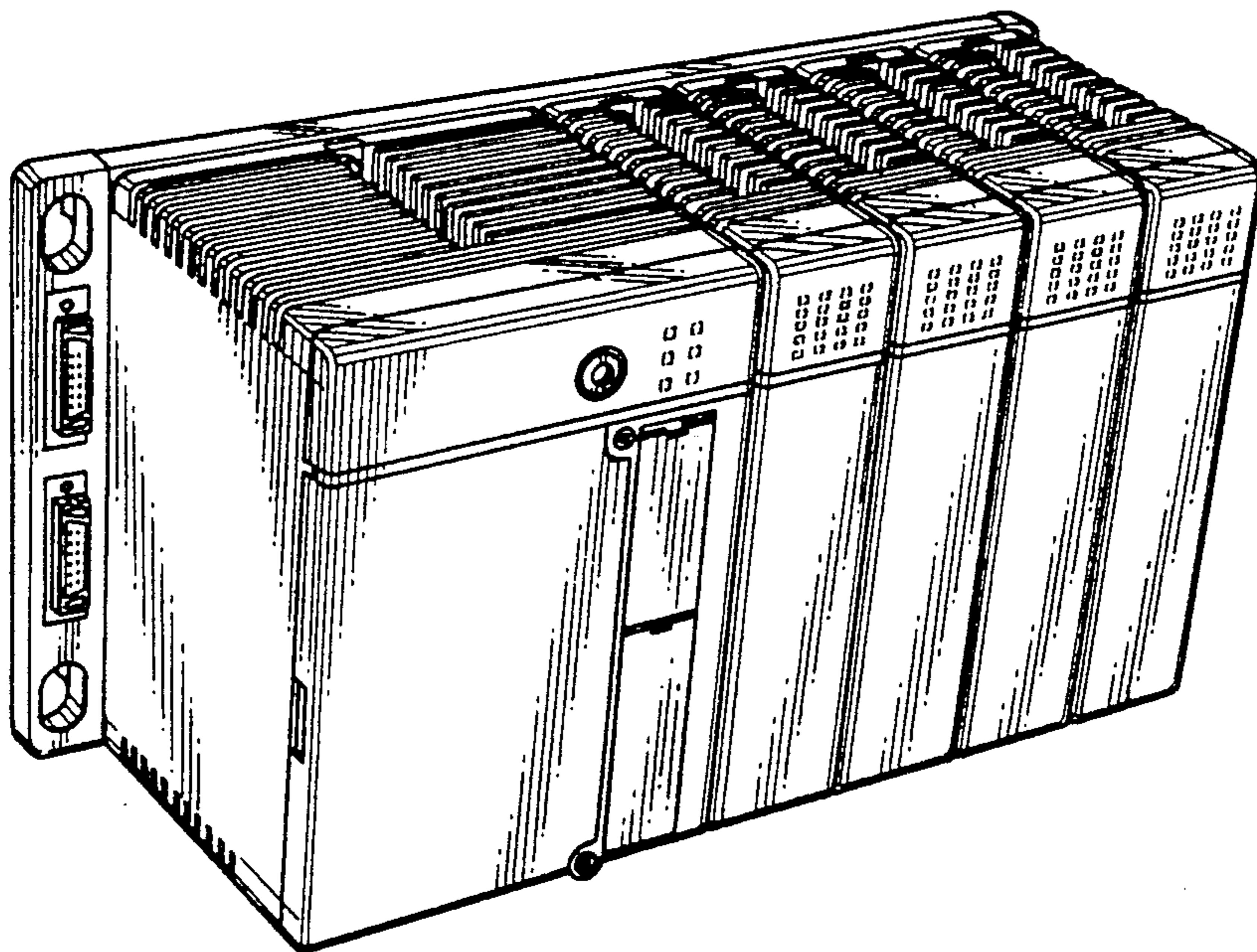
The ornamental design for a programmable controller, as shown and described.

**DESCRIPTION**

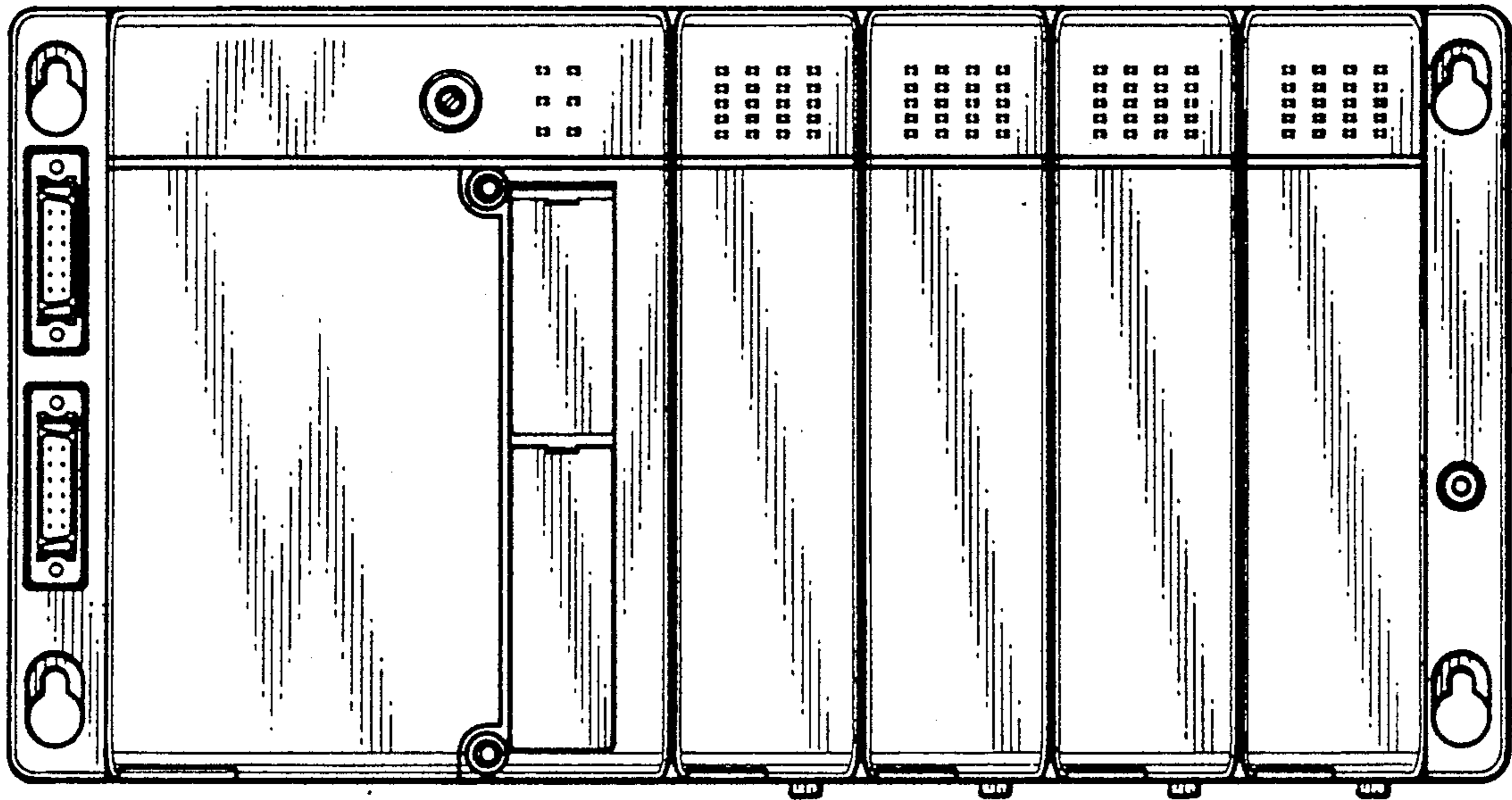
FIG. 1 is a front, top and left side perspective view of a programmable controller showing our new design; FIG. 2 is a front elevational view thereof; FIG. 3 is a rear elevational view thereof; FIG. 4 is a top plan view thereof; FIG. 5 is a bottom plan view thereof; FIG. 6 is a left side elevational view thereof; and, FIG. 7 is a right side elevational view thereof.



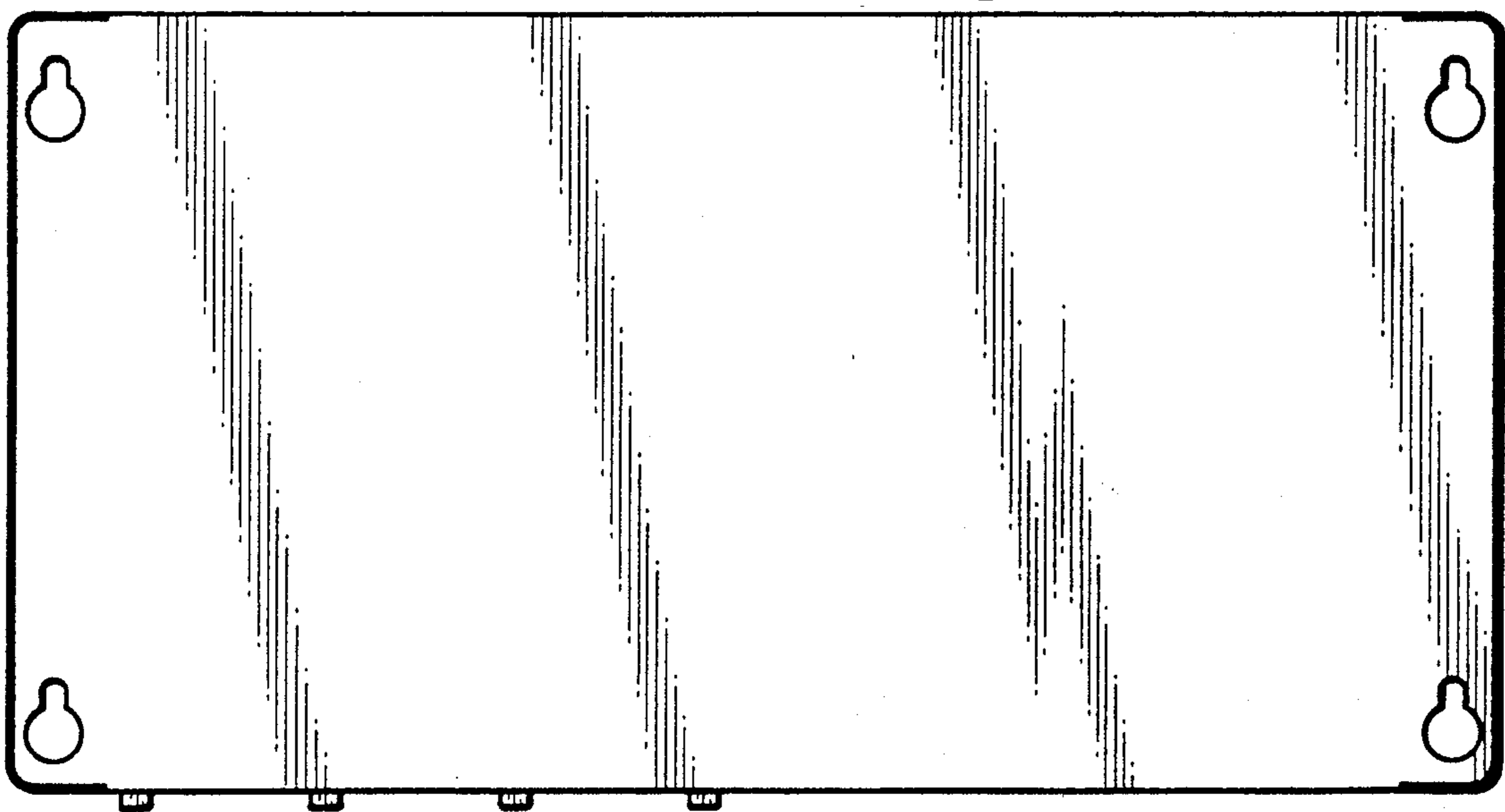
*Fig. 1*



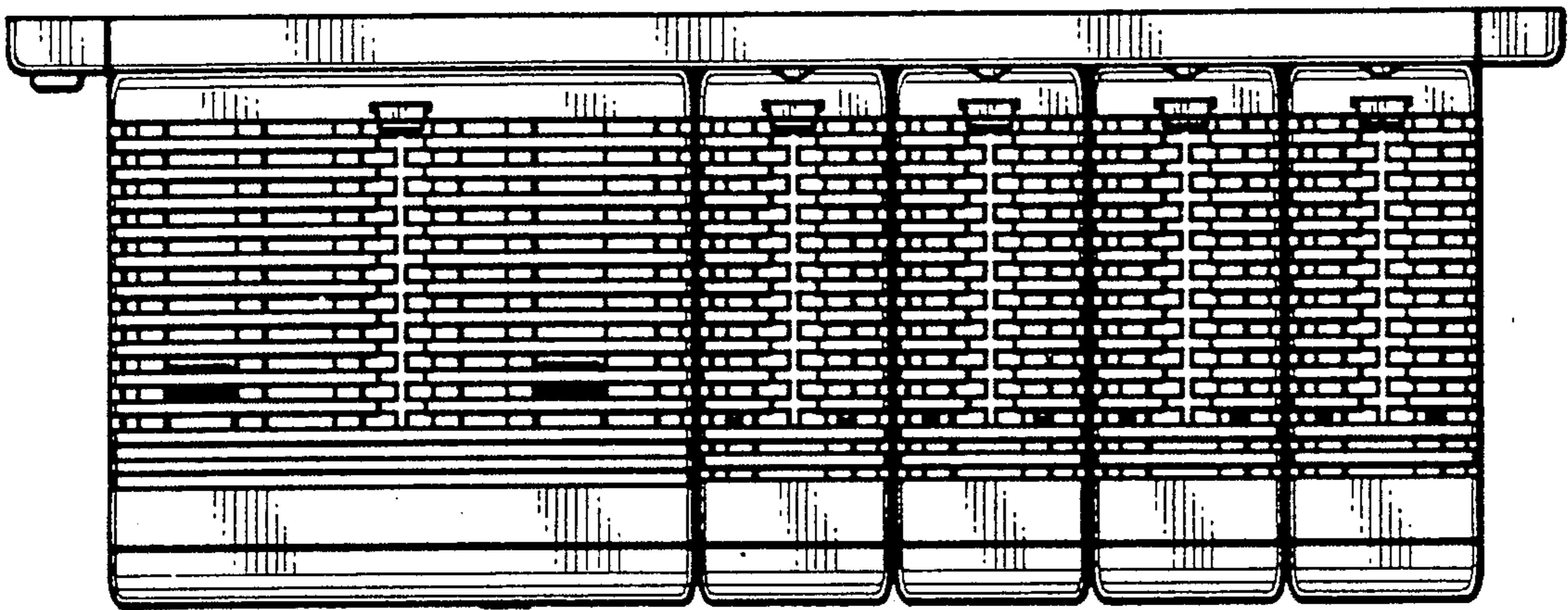
*Fig. 2*



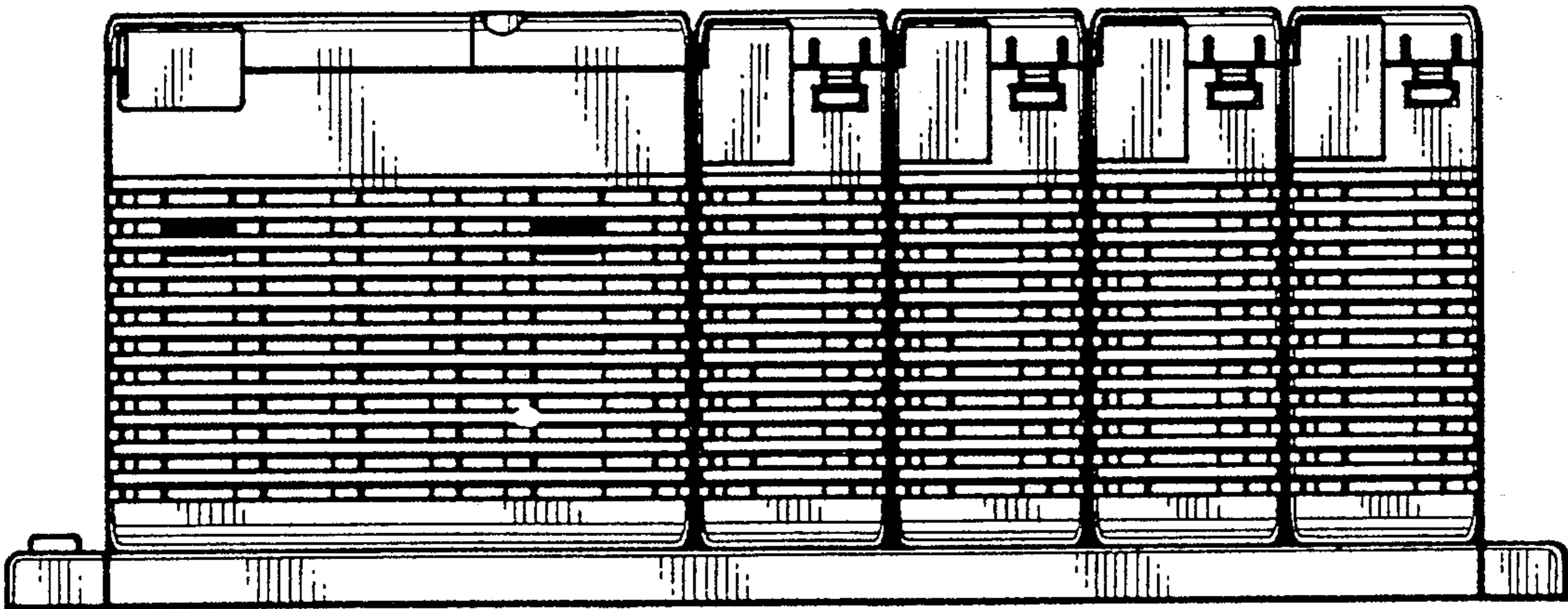
*Fig. 3*



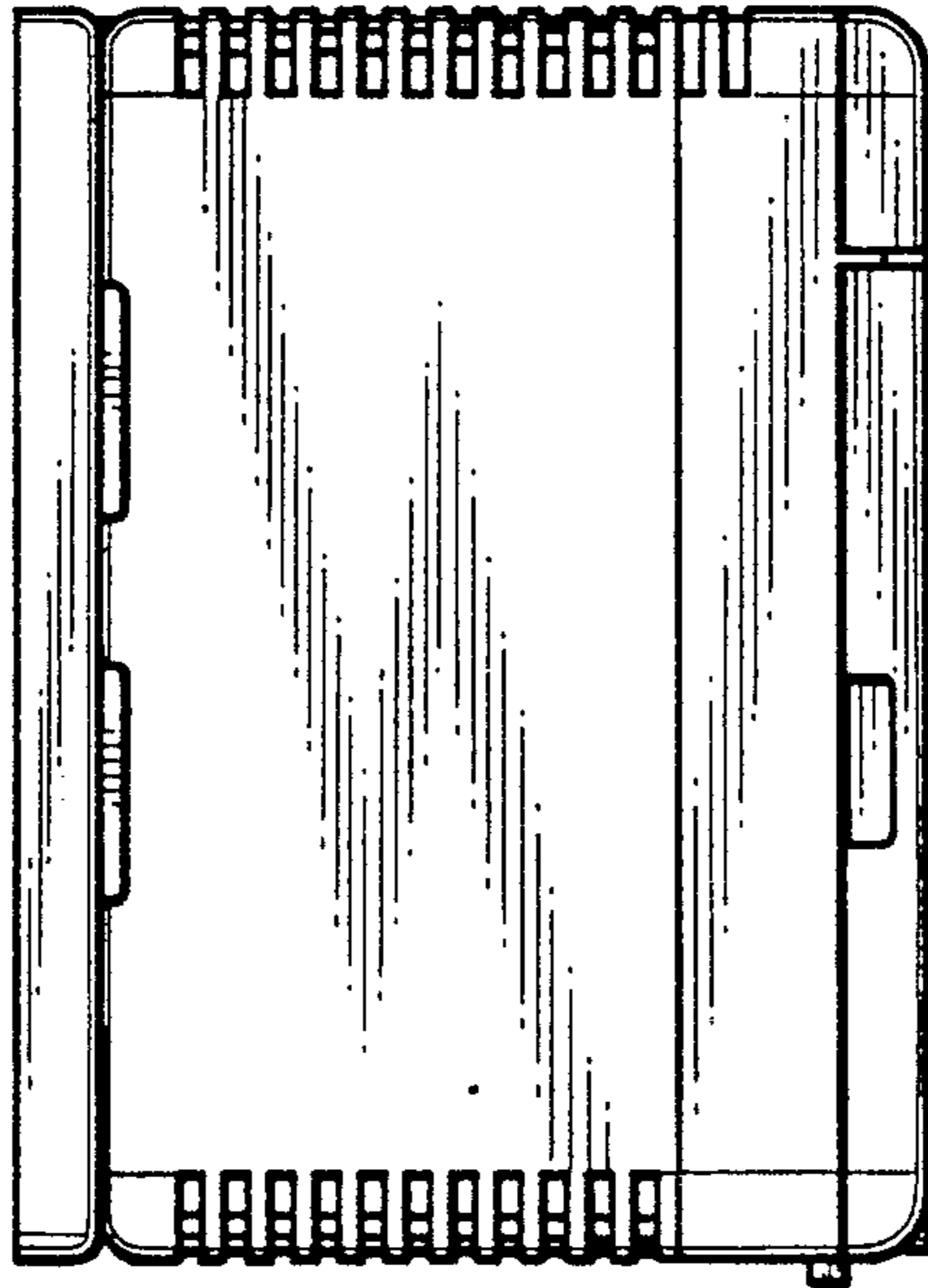
*Fig. 4*



*Fig. 5*



*Fig. 6*



*Fig. 7*

