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United States Patent [19]

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Sato et al.

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[54] SUPPLY AND EXHAUST BLOCK FOR MANIFOLD SOLENOID VALVE

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[73] Assignee: **SMC Corporation,** Tokyo, Japan

[*] Notice: This patent is subject to a terminal disclaimer.

[**] Term: **14 Years**

[21] Appl. No.: **29/094,749**

[22] Filed: **Oct. 9, 1998**

[30] Foreign Application Priority Data

Apr. 13, 1998 [JP] Japan 10-10521

[51] LOC (7) Cl. **23-01**

[52] U.S. Cl. **D23/233**

[58] Field of Search D23/233-237,
D23/245-248; 137/596.13, 596.16, 625.64,
884

[56] References Cited

U.S. PATENT DOCUMENTS

D. 200,454	2/1965	Everitt	D23/233
5,437,306	8/1995	Asou et al.	137/625.64
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OTHER PUBLICATIONS

The design of the present application was displayed at IFPEX '97 Exhibition—Oct. 21-24, 1997.

Primary Examiner—Robin V. Taylor

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[57] CLAIM

The ornamental design for supply and exhaust block for manifold solenoid valve, as shown and described.

DESCRIPTION

The design of the present application is directed to a supply and exhaust block for a manifold solenoid valve, the supply and exhaust block being positionable on a side end surface of a manifold of a manifold solenoid valve to simultaneously supply and exhaust compressed air to and from a plurality of pilot-operated directional control valves on the manifold through a port provided in the lower half thereof. In addition, in the upper part of the supply and exhaust block, an external, small-diameter pilot port for supplying and exhausting a pilot fluid used to drive each pilot-operated directional control valve is provided and a silencer for arresting sound emitted during the supply and exhaust of the pilot fluid is mounted on the top surface of the supply and exhaust block.

FIG. 1 is a top, front and left side perspective view of supply and exhaust block for manifold solenoid valve embodying 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 right side elevational view thereof;

FIG. 7 is a left side elevational view thereof;

FIG. 8 is a top, front and left side perspective view thereof, shown in use with the solenoid transfer valve which is shown in broken lines and forms no part of the claimed design; and,

FIG. 9 is a bottom, rear and right side perspective view thereof.

1 Claim, 3 Drawing Sheets

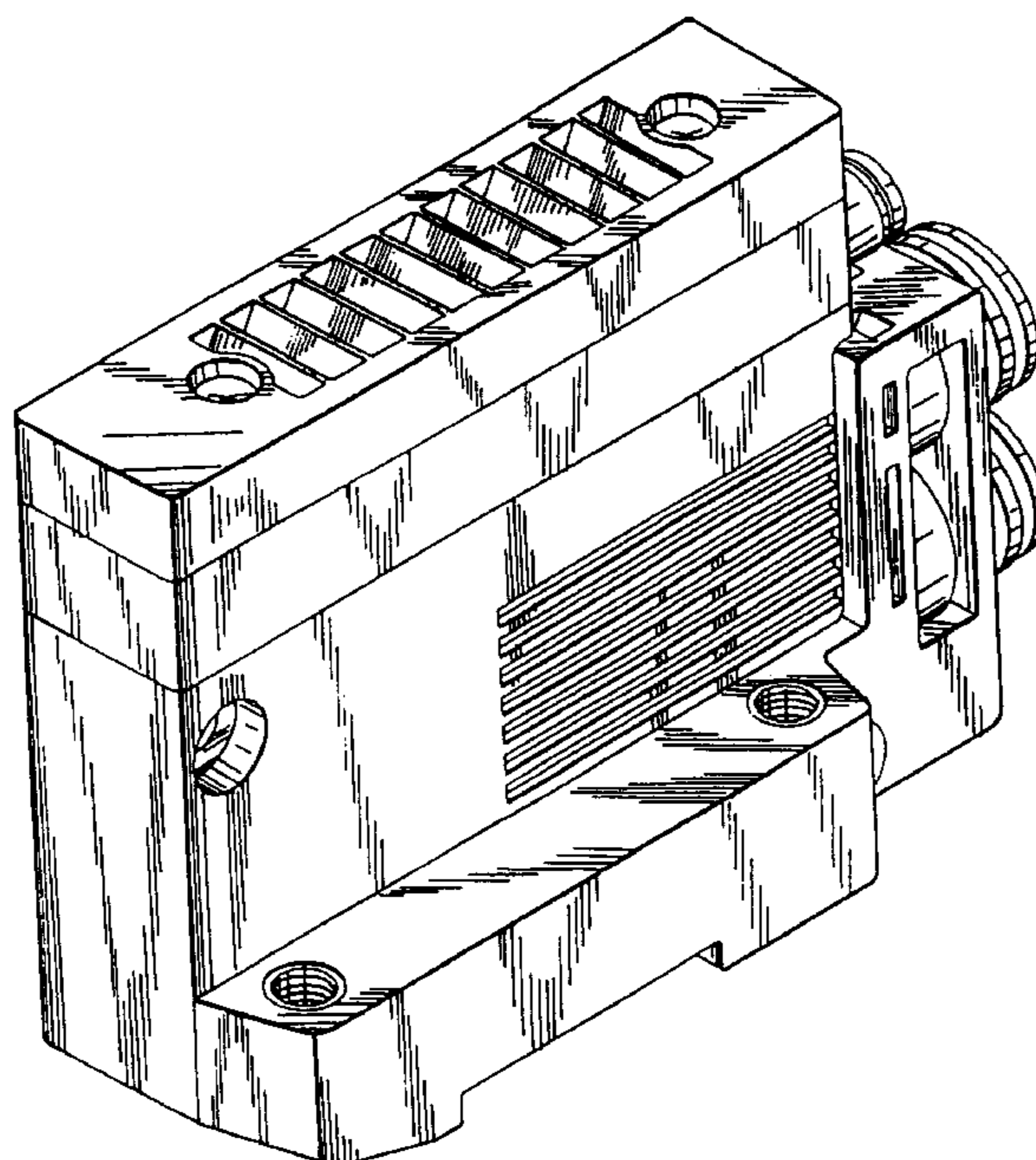


FIG. 1

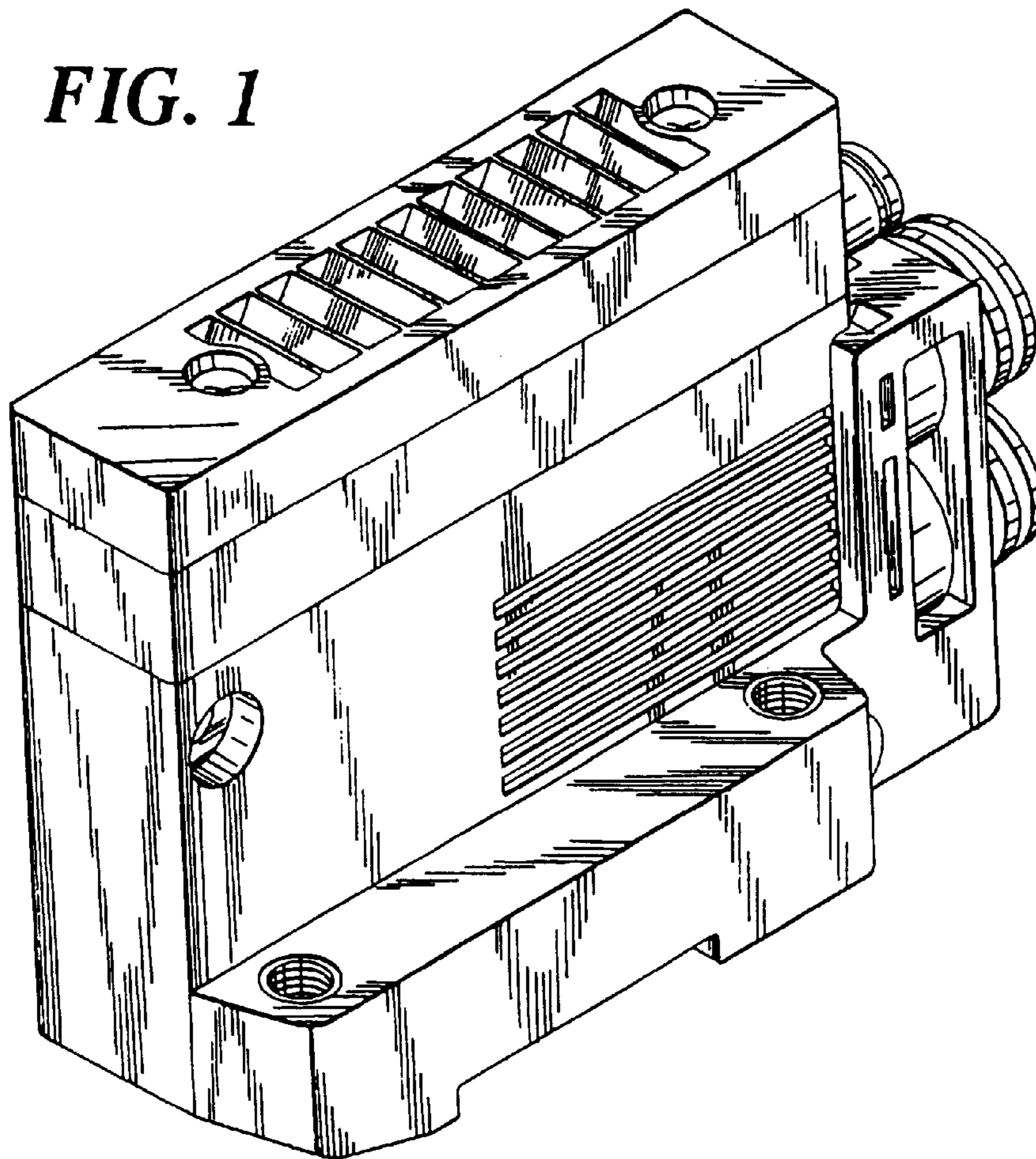


FIG. 8

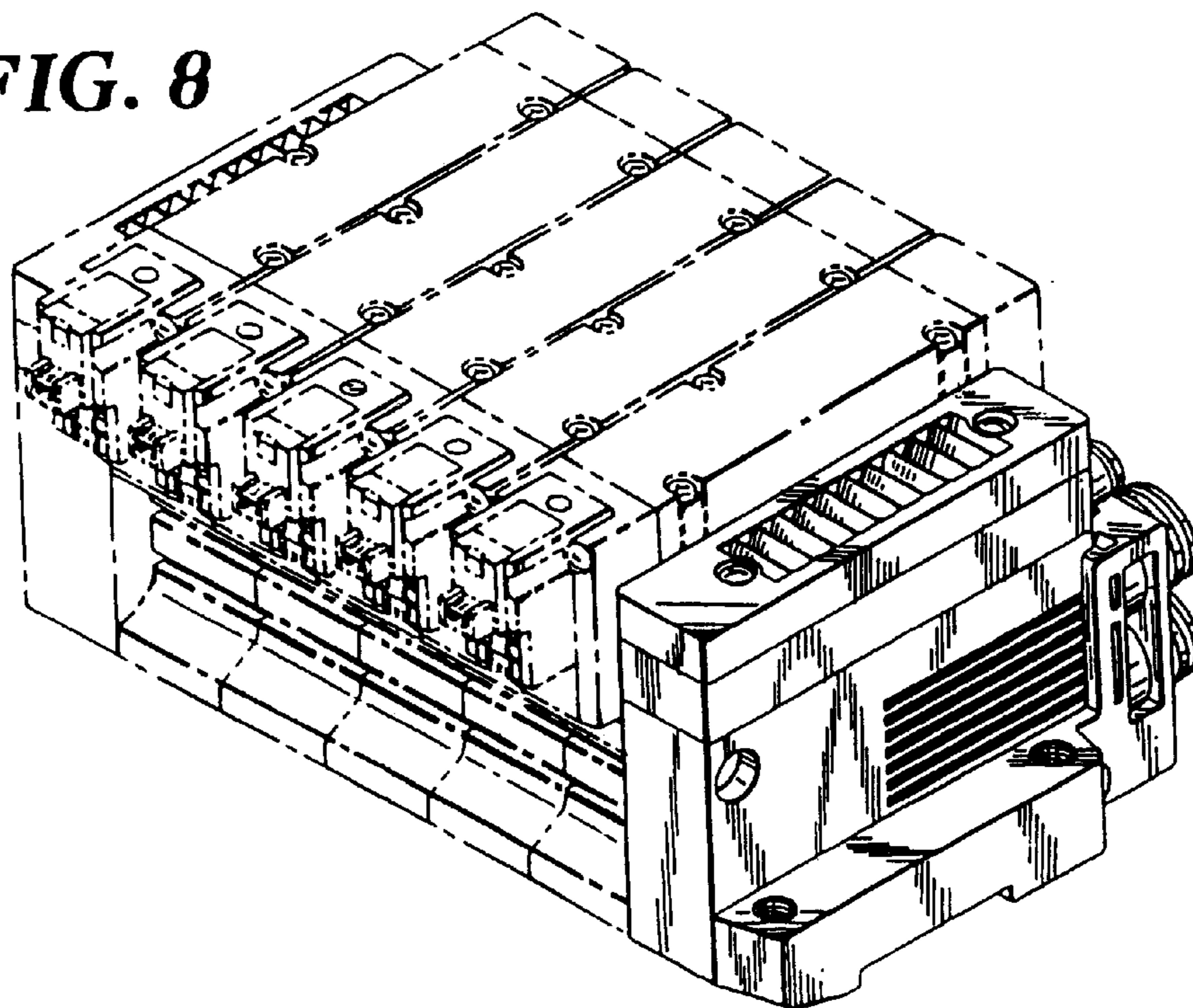


FIG. 2

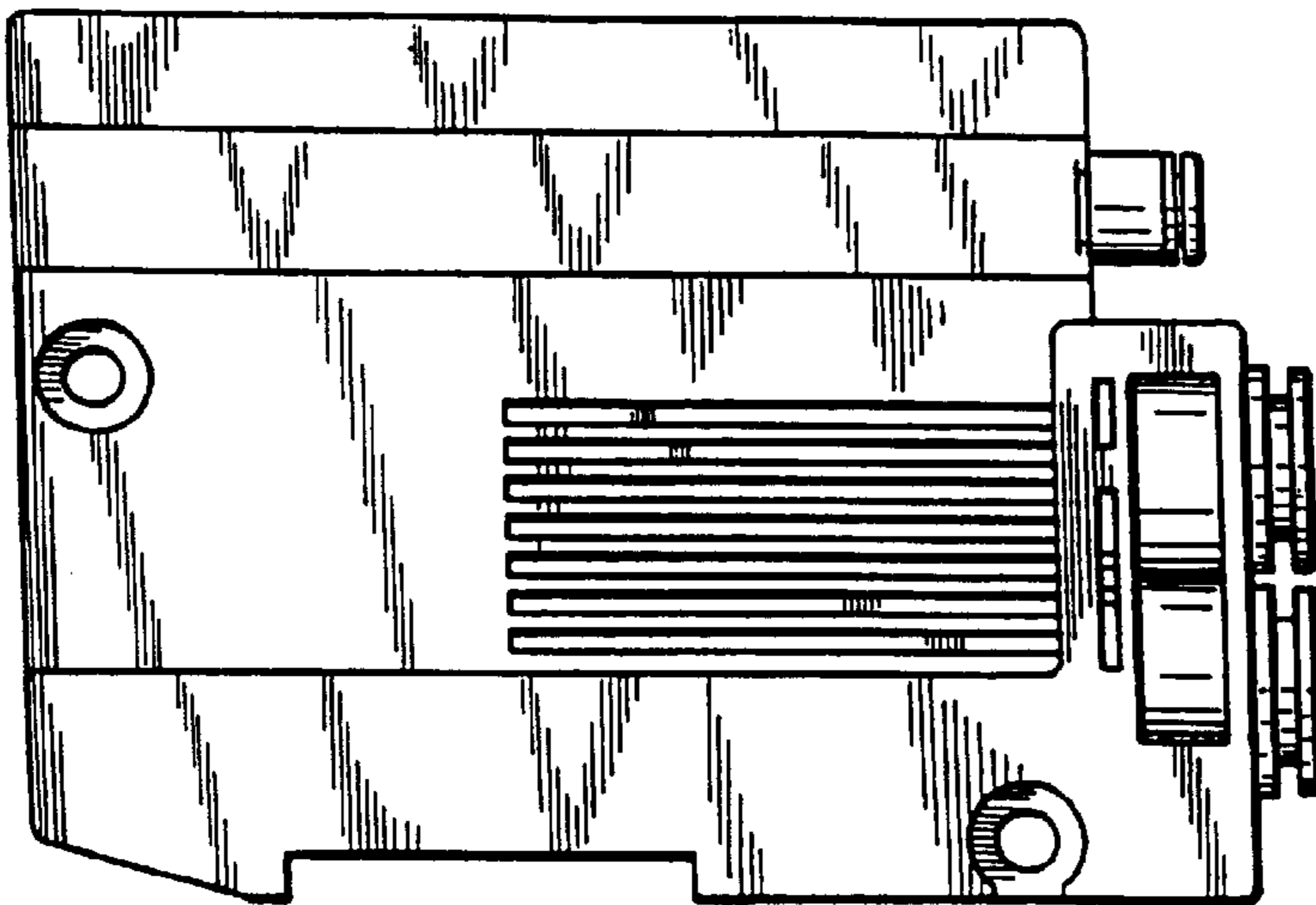


FIG. 3

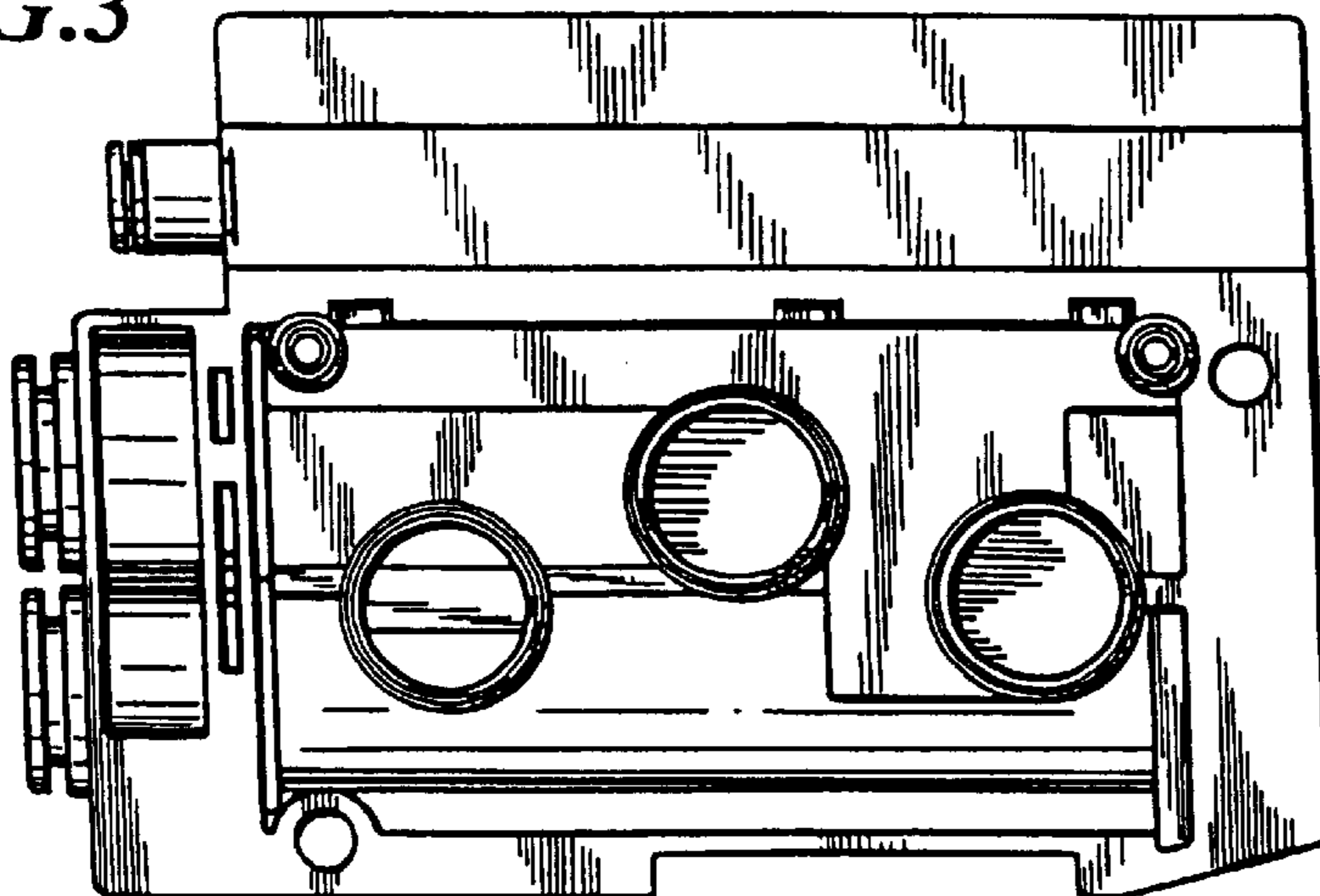


FIG. 4

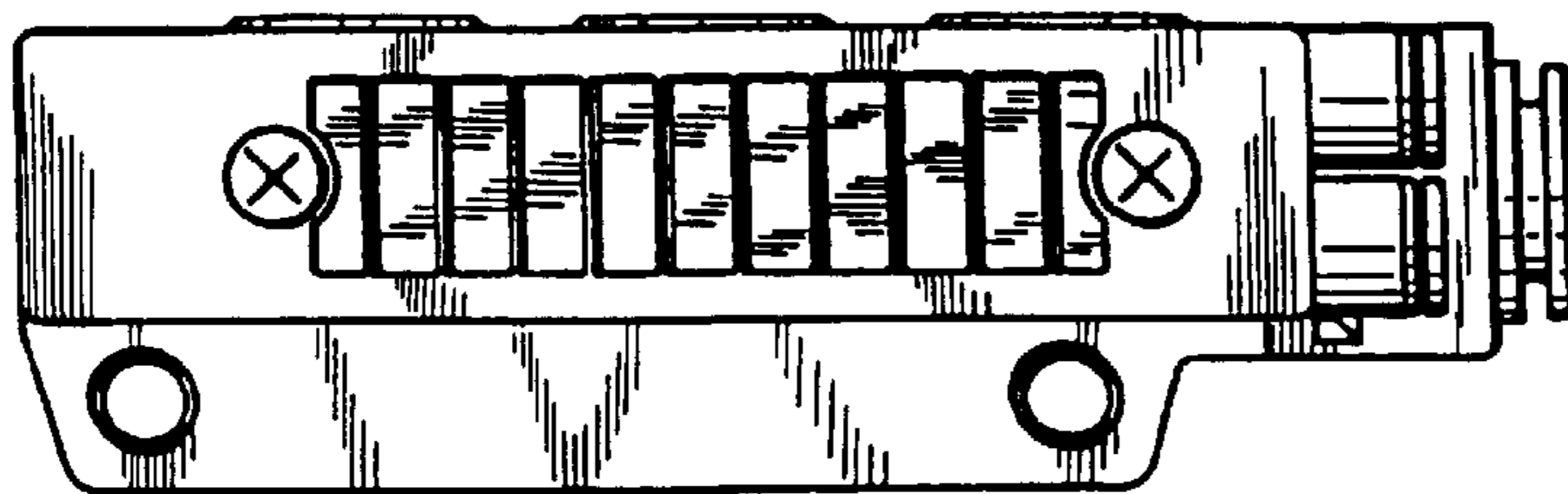


FIG. 5

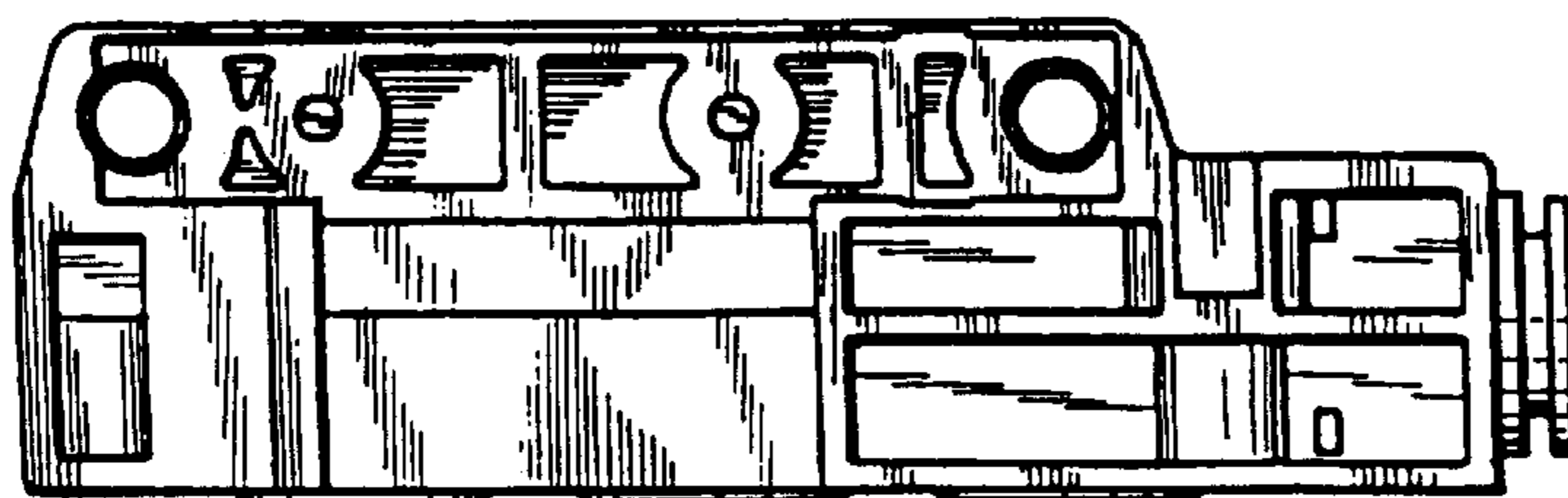


FIG. 6

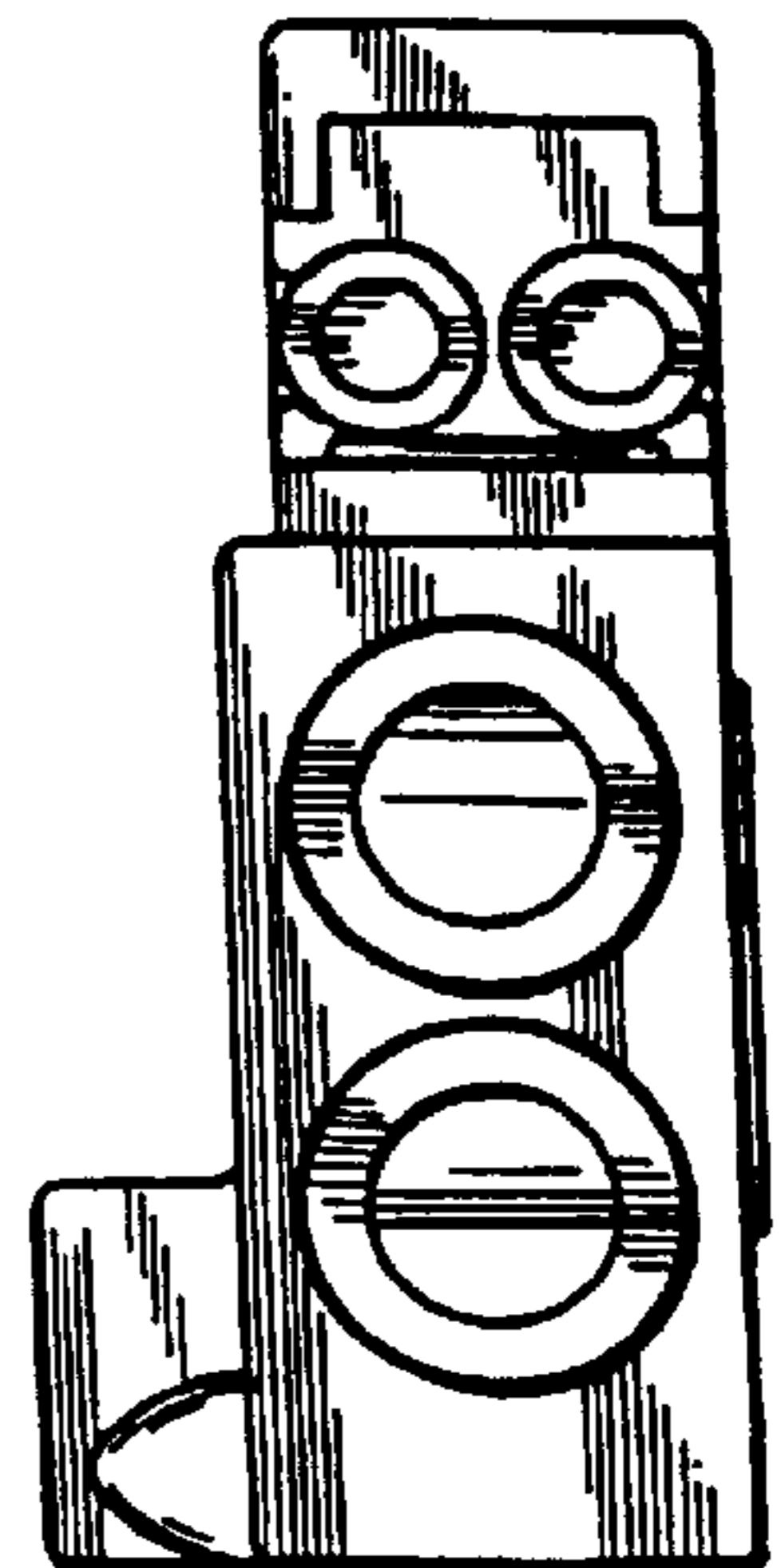
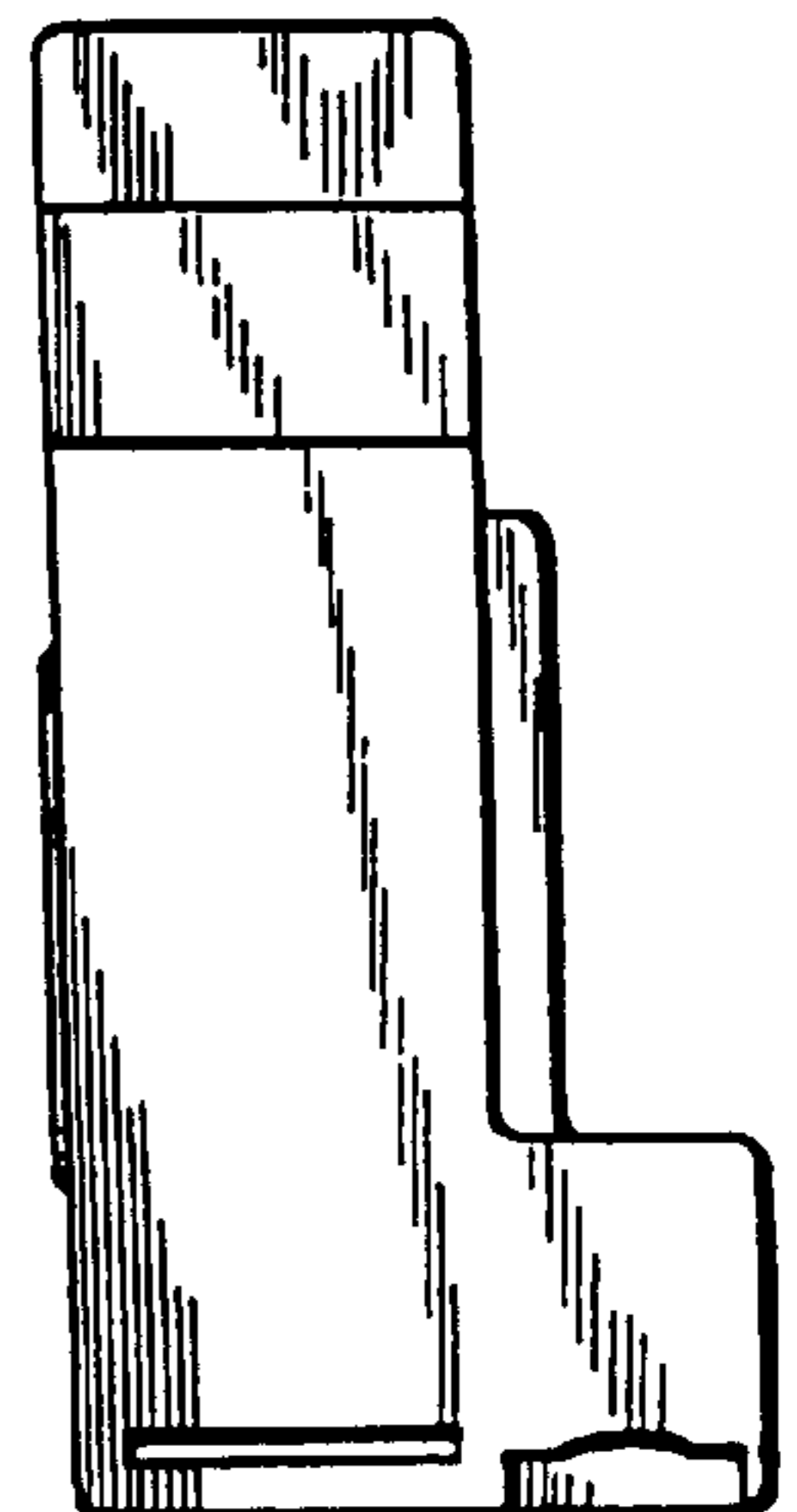


FIG. 7



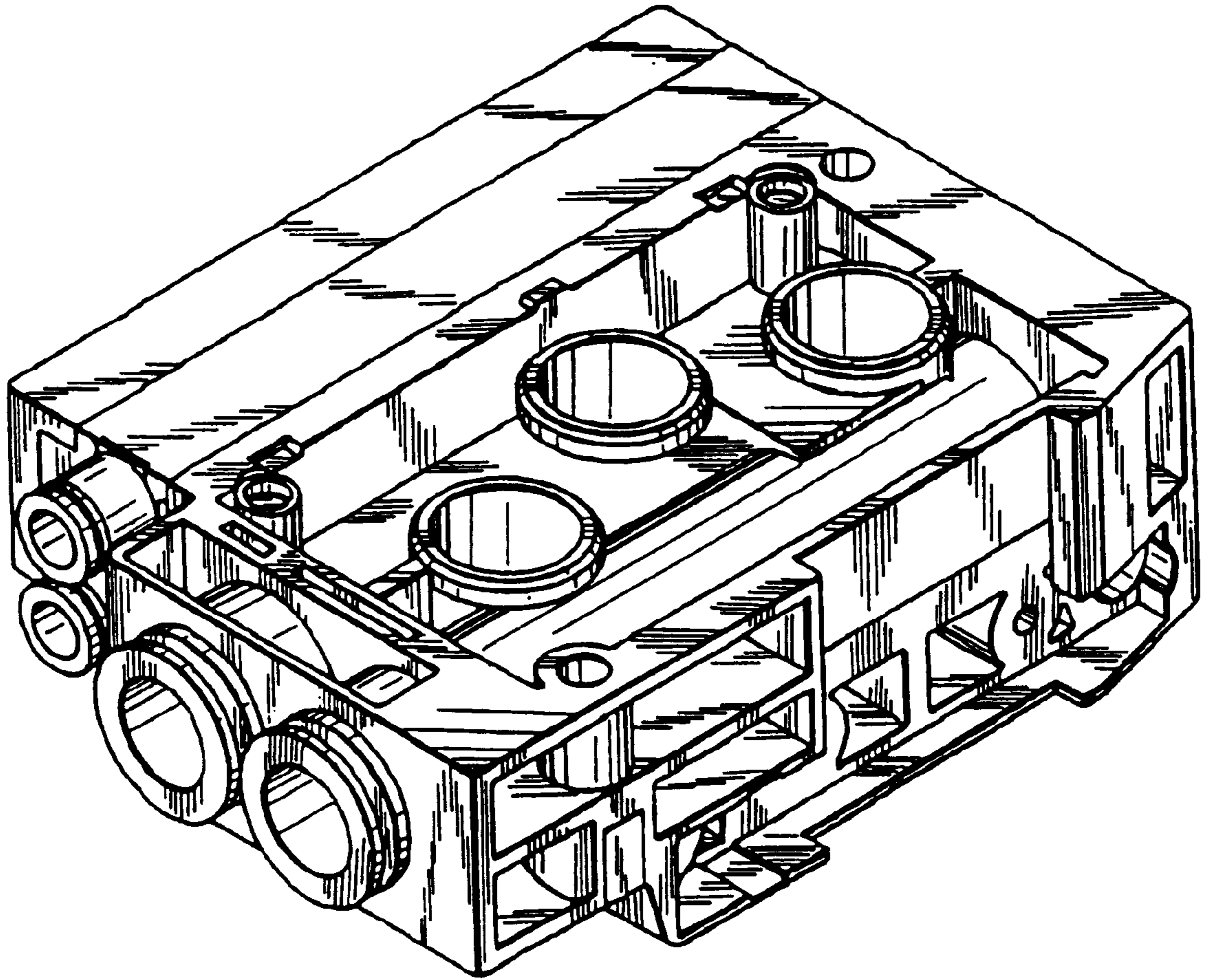


FIG. 9