



US00D554164S

(12) **United States Design Patent** (10) **Patent No.:** **US D554,164 S**
Naruse et al. (45) **Date of Patent:** **** Oct. 30, 2007**

(54) **LINEAR ACTUATOR**

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(73) Assignee: **SMC Kabushiki Kaisha**, Tokyo (JP)

(**) Term: **14 Years**

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(22) Filed: **May 25, 2005**

(30) **Foreign Application Priority Data**

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(51) **LOC (8) Cl.** **15-09**

(52) **U.S. Cl.** **D15/143; D15/5**

(58) **Field of Classification Search** D15/5,
D15/143, 148, 199; 74/89.15, 490.09; 319/80
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D365,352 S * 12/1995 Miyamoto et al. D15/143
D446,229 S * 8/2001 Kaneko D15/143
D456,826 S * 5/2002 Nagai et al. D15/143
6,476,525 B2 * 11/2002 Sato et al. 310/20
D529,938 S * 10/2006 Noda et al. D15/143

* cited by examiner

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(57) **CLAIM**

The ornamental design for a linear actuator, as shown and described.

DESCRIPTION

FIG. 1 is a top, front and left-side perspective view of a linear actuator showing a first embodiment of our new design;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a top plan view thereof;

FIG. 5 is a bottom plan view thereof;

FIG. 6 is a right side view thereof;

FIG. 7 is a left side view thereof;

FIG. 8 is a top, front and left-side perspective view of a linear actuator showing a second embodiment of our new design;

FIG. 9 is a front view thereof;

FIG. 10 is a rear view thereof;

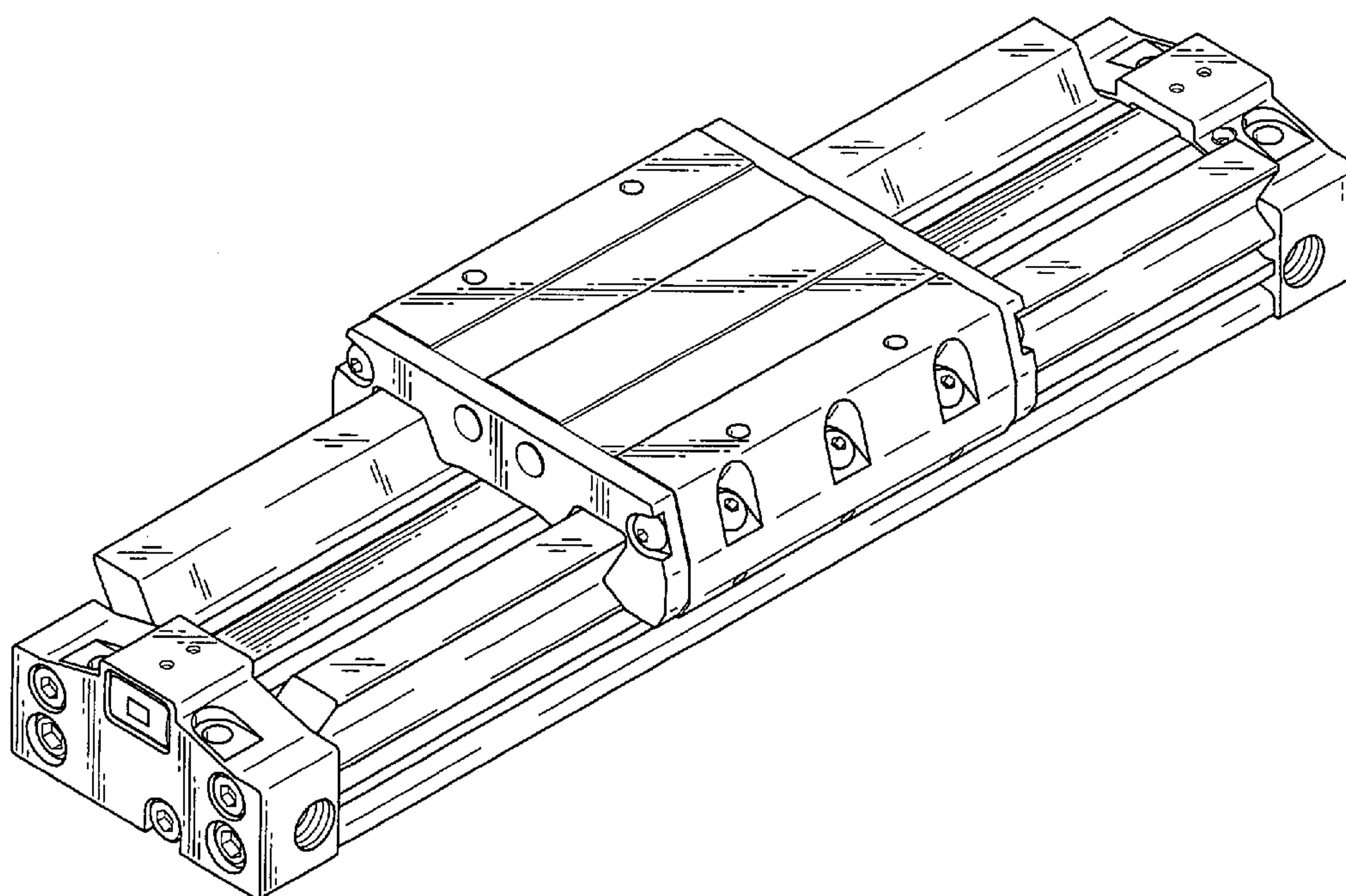
FIG. 11 is a top plan view thereof;

FIG. 12 is a bottom plan view thereof;

FIG. 13 is a right side view thereof; and,

FIG. 14 is a left side view thereof.

1 Claim, 14 Drawing Sheets



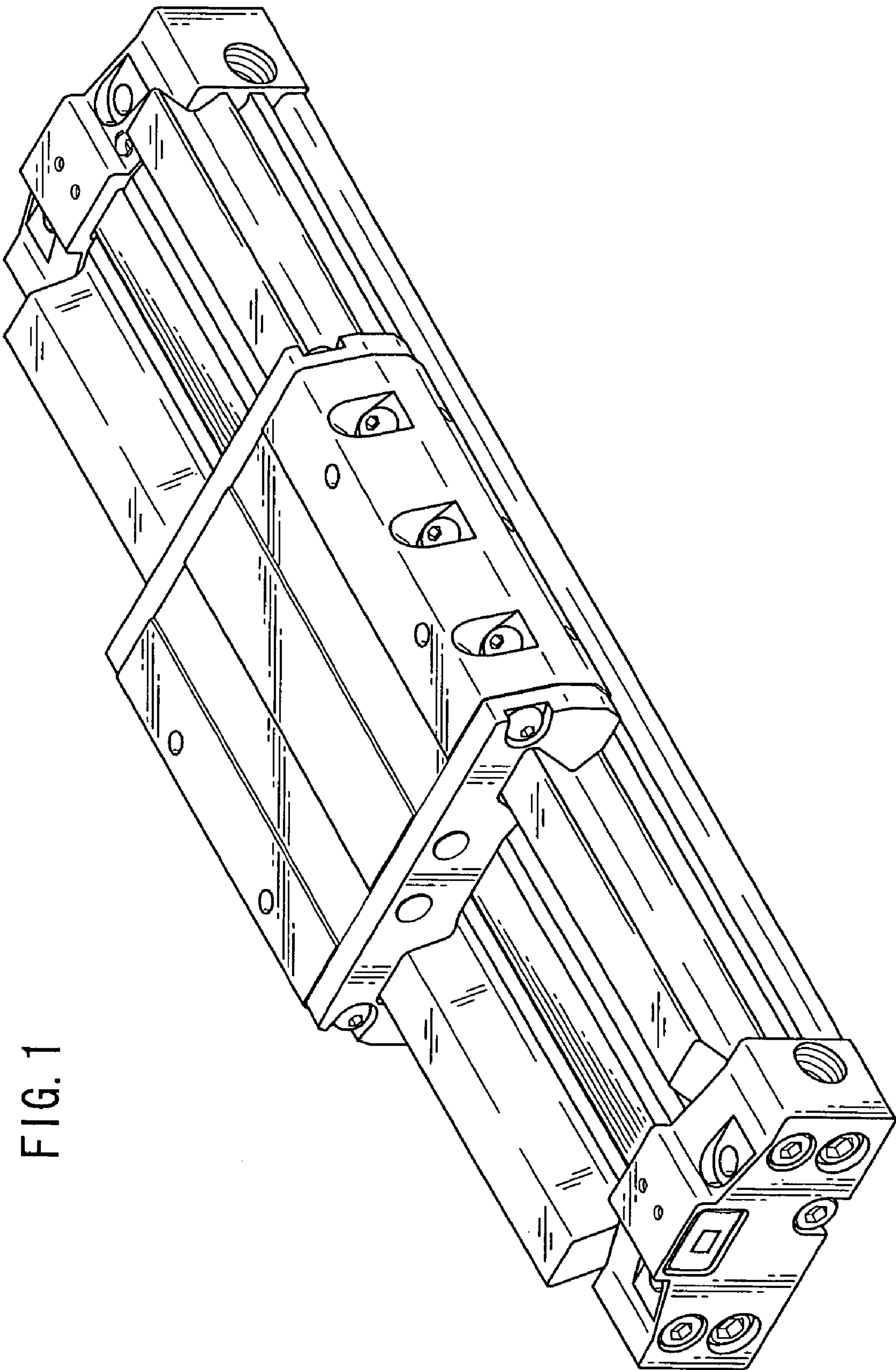


FIG. 1

FIG. 2

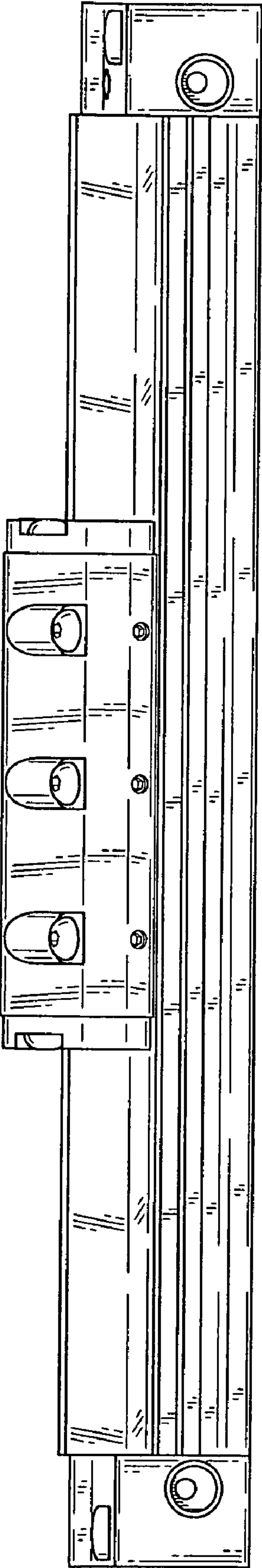


FIG. 3

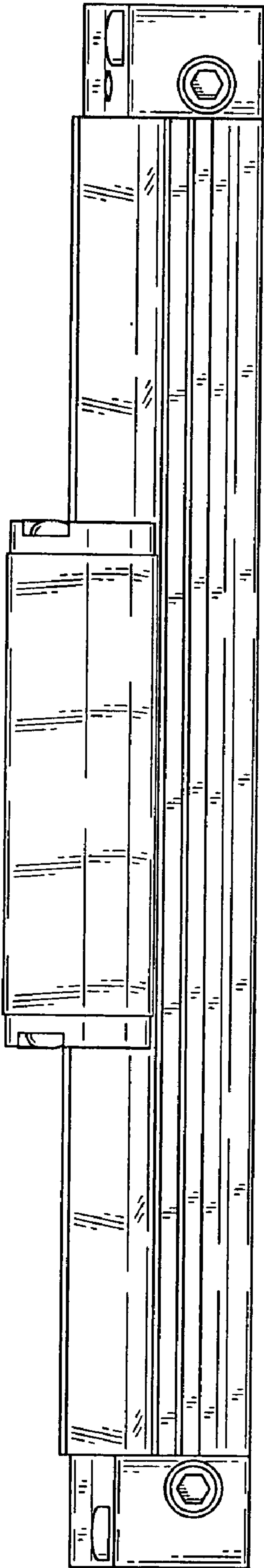


FIG. 4

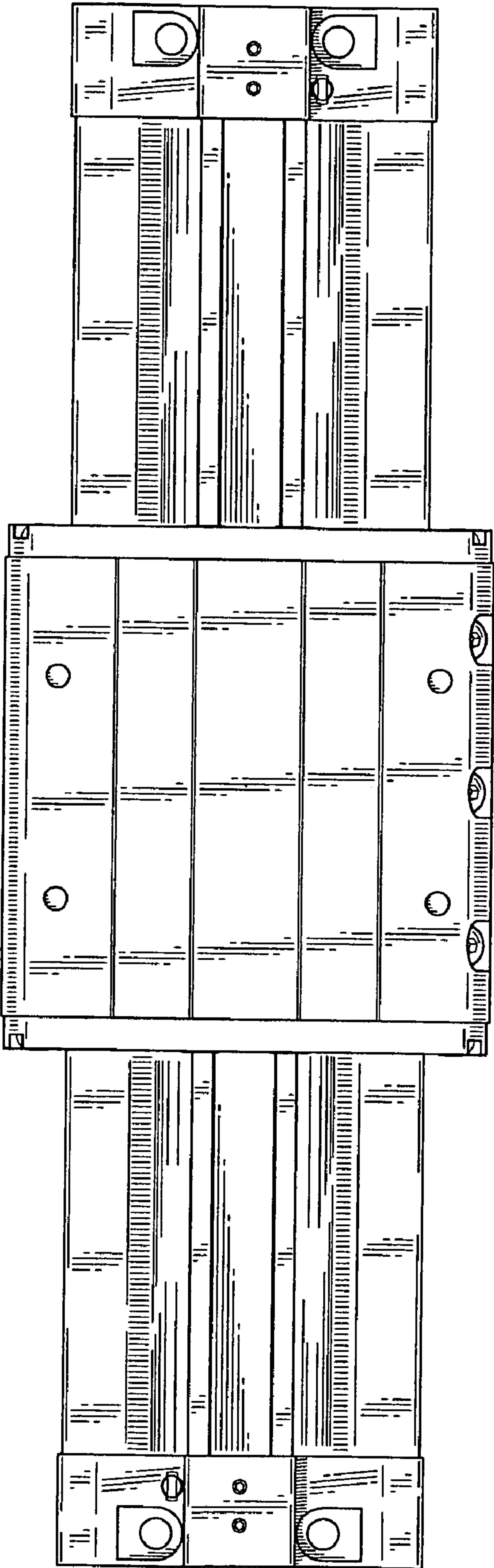


FIG. 5

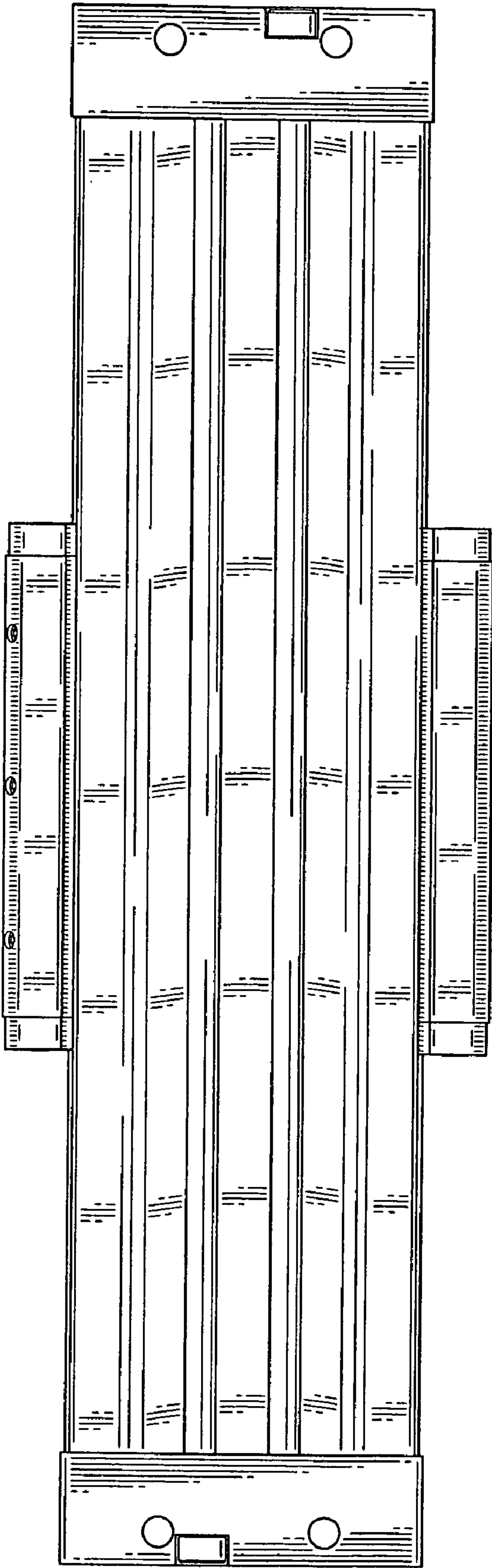


FIG. 6

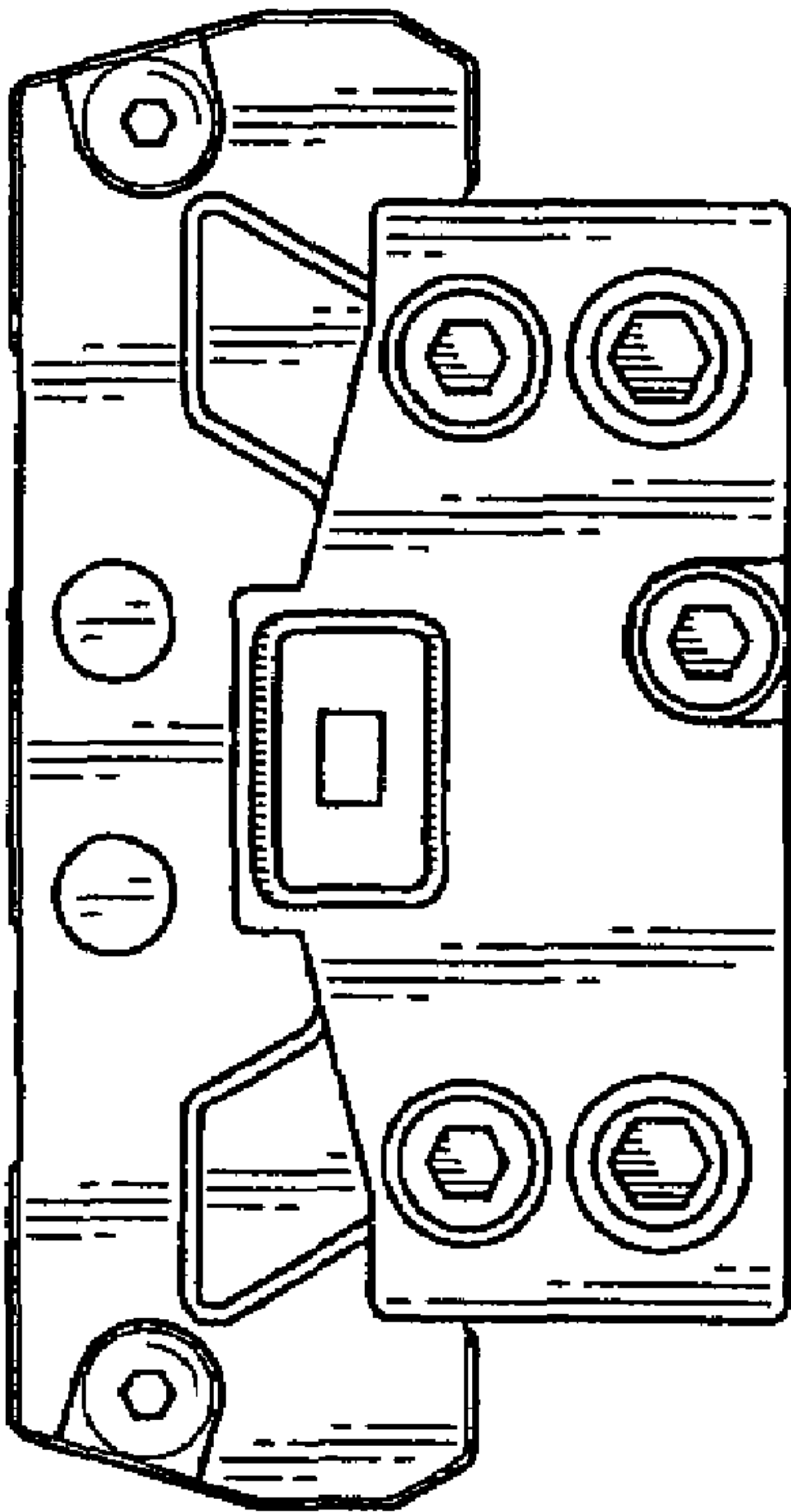
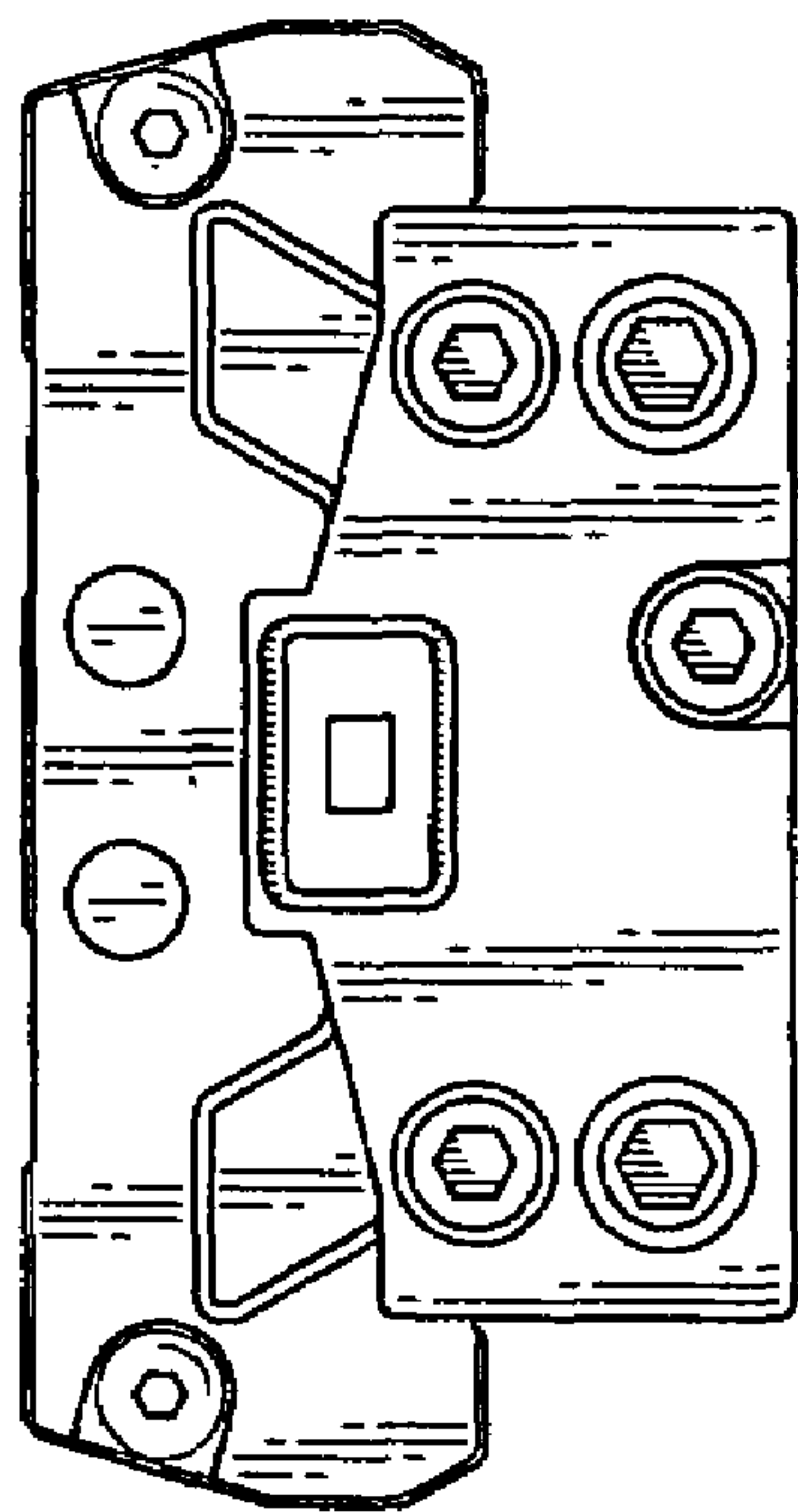


FIG. 7



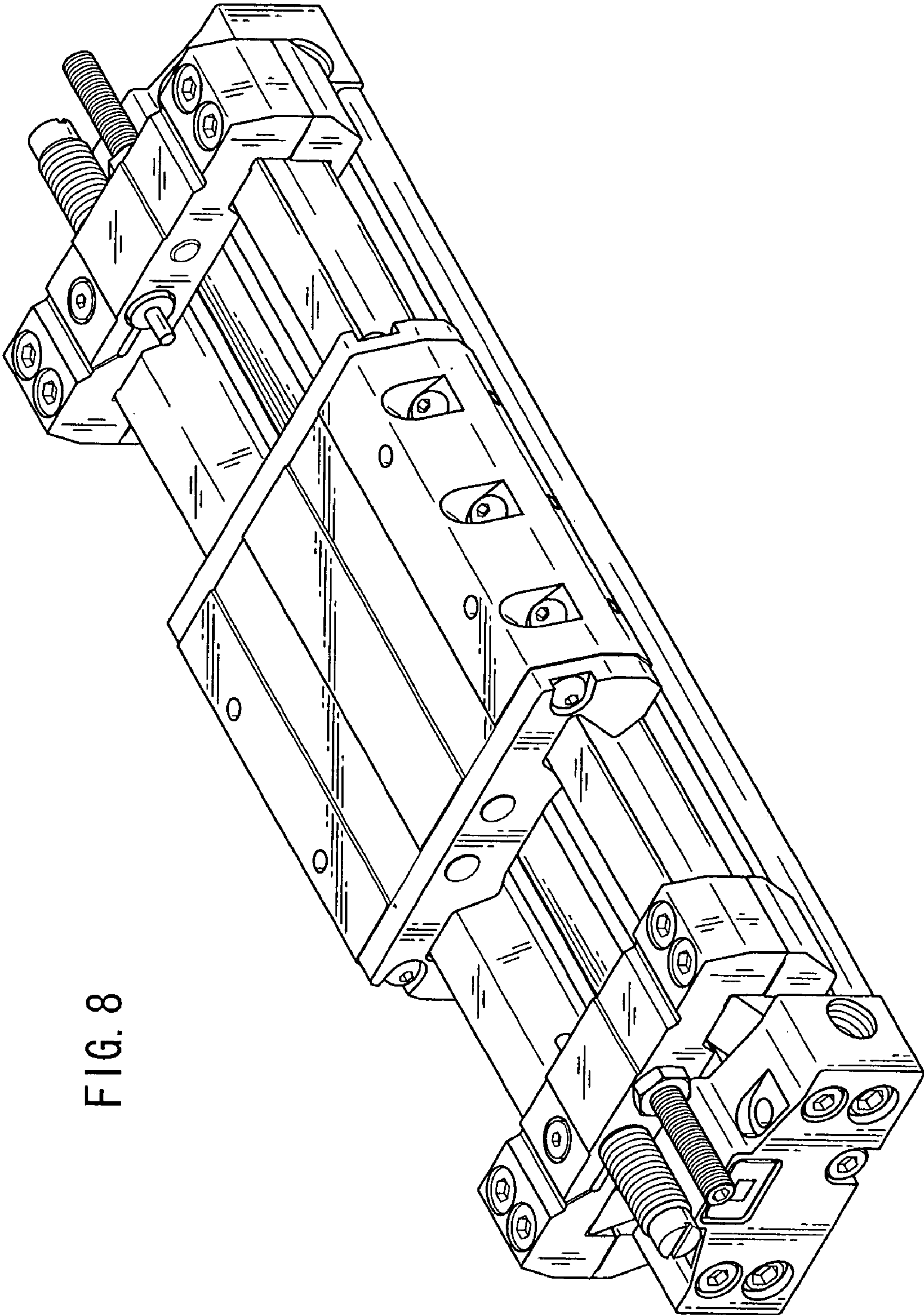


FIG. 8

FIG. 9

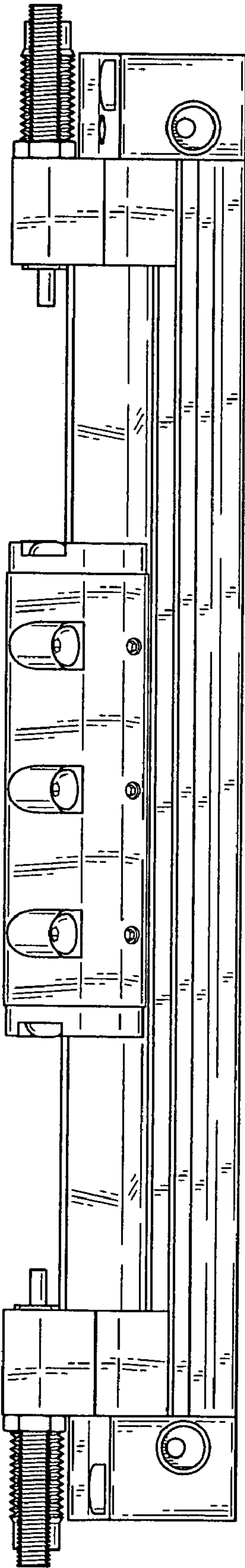


FIG. 10

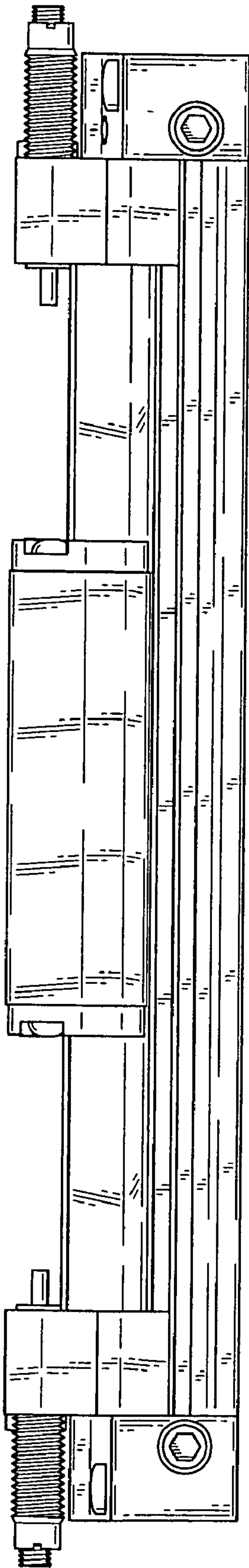


FIG. 11

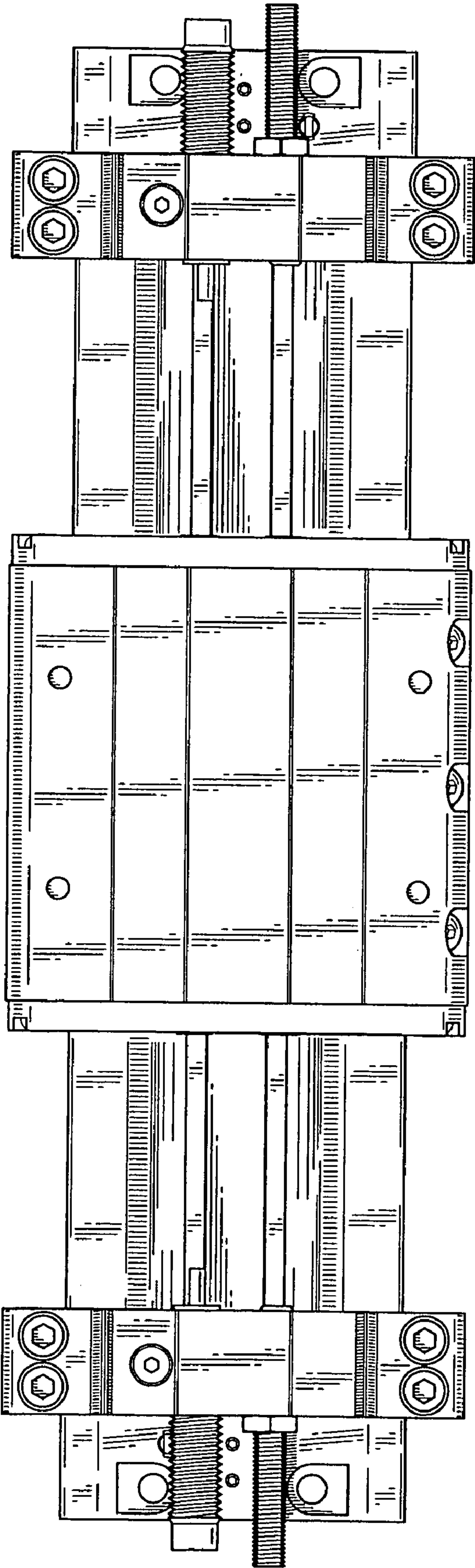


FIG. 12

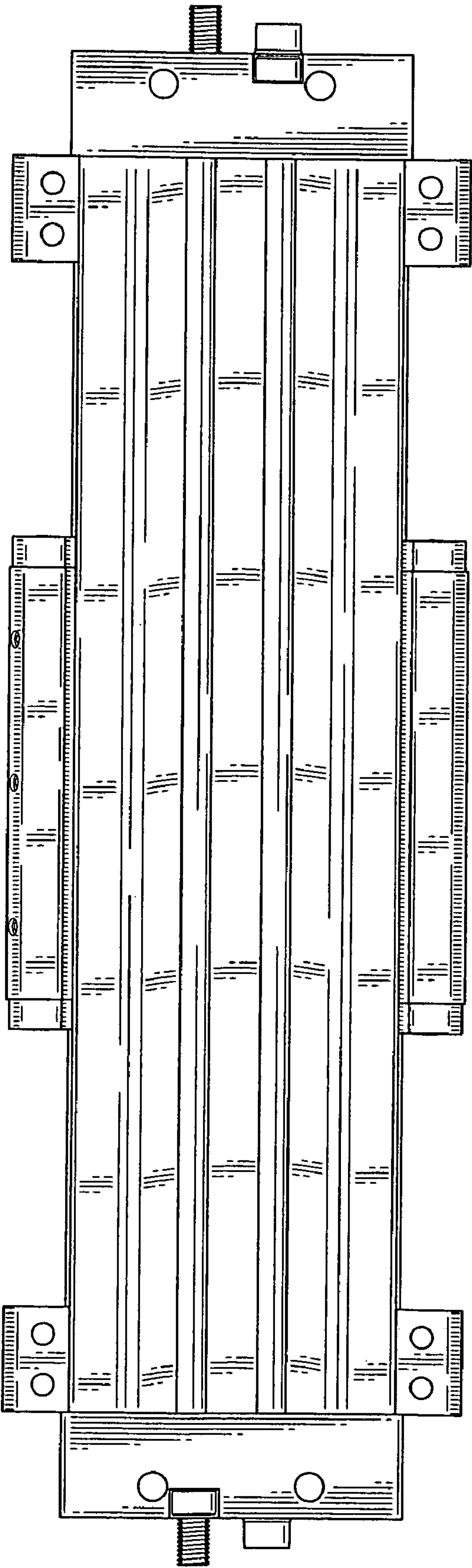


FIG. 13

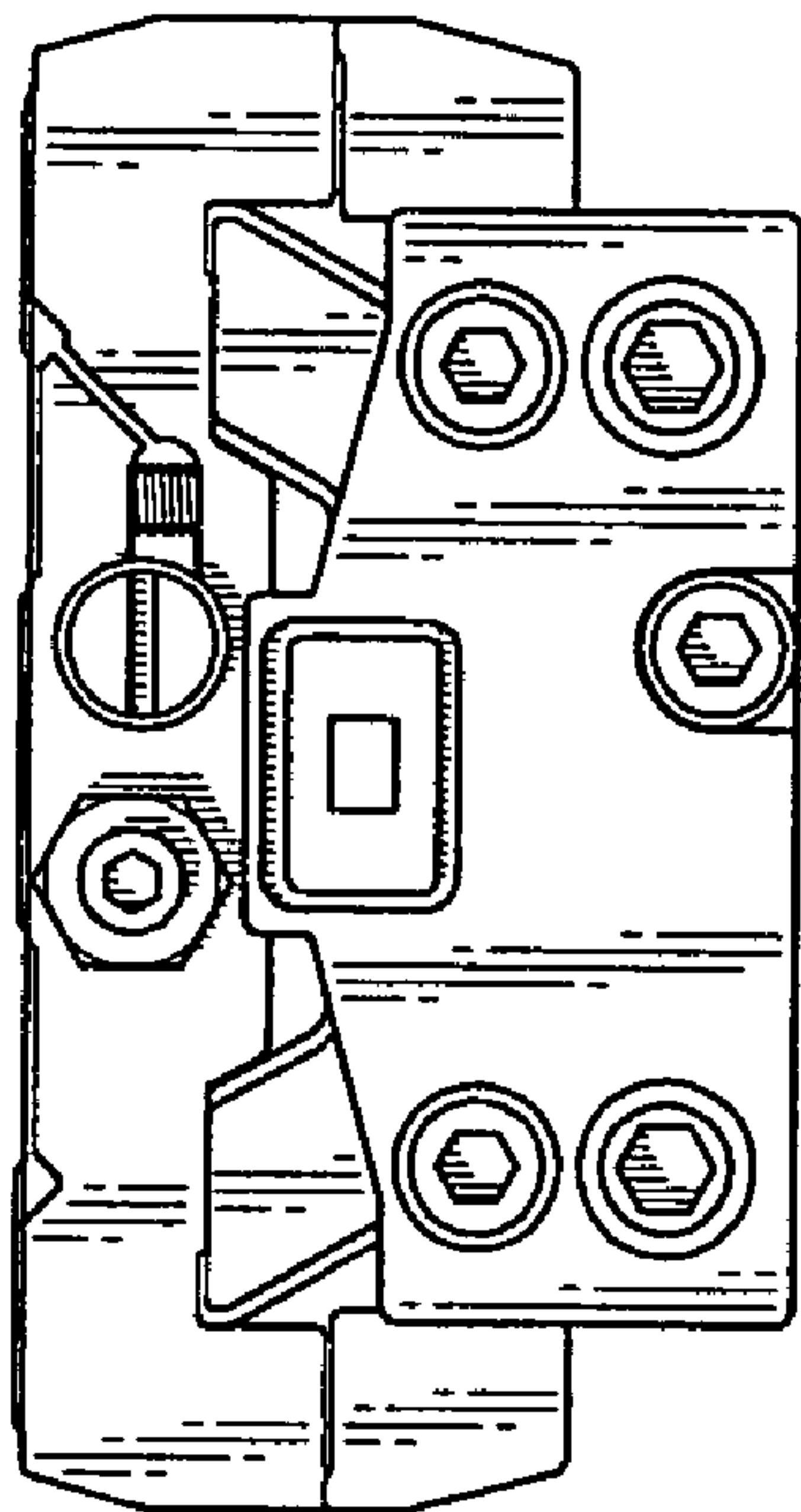


FIG. 14

