



US00D986296S

(12) **United States Design Patent**
Takakuwa et al.

(10) **Patent No.:** **US D986,296 S**
(45) **Date of Patent:** **** May 16, 2023**

(54) **BOOSTER REGULATOR**

(71) Applicant: **SMC CORPORATION**, Tokyo (JP)

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Kengo Monden, Ushiku (JP)

(73) Assignee: **SMC CORPORATION**, Tokyo (JP)

(**) Term: **15 Years**

(21) Appl. No.: **29/762,875**

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(30) **Foreign Application Priority Data**

Jul. 17, 2020 (CN) 202030391216.1

(51) **LOC (14) Cl.** **15-02**

(52) **U.S. Cl.**
USPC **D15/7**

(58) **Field of Classification Search**
USPC D15/5, 7, 9, 143; D23/235, 249, 499
(Continued)

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(Continued)

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(57) **CLAIM**

The ornamental design for a booster regulator, as shown and described.

DESCRIPTION

FIG. 1 is a front, top and right side perspective view of a booster regulator showing a first embodiment of our new design;

FIG. 2 is a rear, top and left side perspective view thereof;
FIG. 3 is a front, bottom and left side perspective view thereof;

FIG. 4 is a front view thereof;

FIG. 5 is a rear view thereof;

FIG. 6 is a top plan view thereof;

FIG. 7 is a bottom plan view thereof;

FIG. 8 is a left side view thereof;

FIG. 9 is a right side view thereof;

FIG. 10 is a front, top and right side perspective view of a booster regulator showing a second embodiment of our new design;

FIG. 11 is a rear, top and left side perspective view of FIG. 10;

FIG. 12 is a front, bottom and left side perspective view of FIG. 10;

FIG. 13 is a front view of FIG. 10;

FIG. 14 is a rear view of FIG. 10;

FIG. 15 is a top plan view of FIG. 10;

FIG. 16 is a bottom plan view of FIG. 10;

FIG. 17 is a left side view of FIG. 10;

FIG. 18 is a right side view of FIG. 10;

FIG. 19 is a front, top and right side perspective view of a booster regulator showing a third embodiment of our new design;

FIG. 20 is a rear, top and left side perspective view of FIG. 19;

FIG. 21 is a front, bottom and left side perspective view of FIG. 19;

FIG. 22 is a front view of FIG. 19;

(Continued)

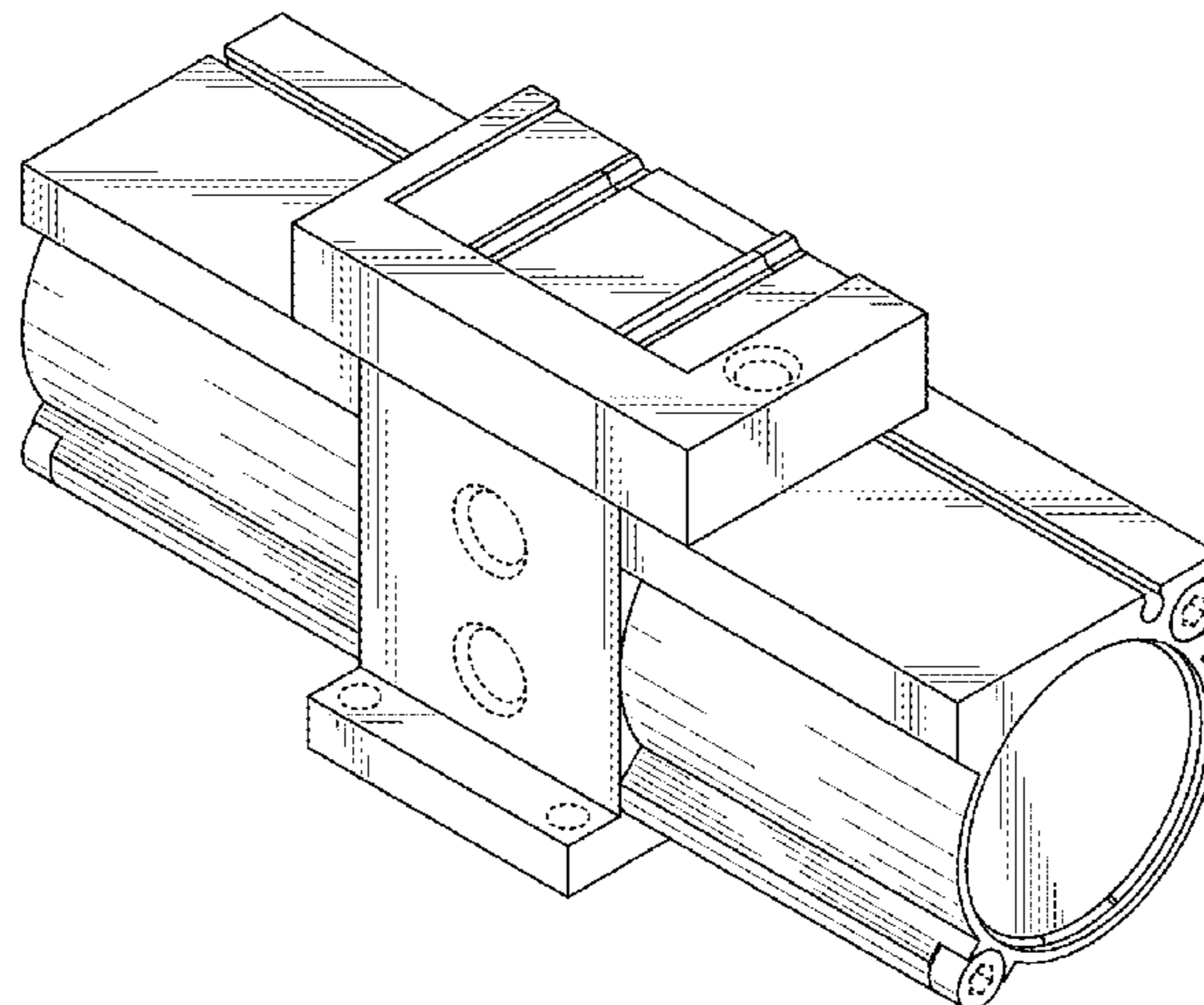


FIG. 23 is a rear view of FIG. 19;
 FIG. 24 is a top plan view of FIG. 19;
 FIG. 25 is a bottom plan view of FIG. 19;
 FIG. 26 is a left side view of FIG. 19; and,
 FIG. 27 is a right side view of FIG. 19.
 The broken lines depict portions of the booster regulator that form no part of the claimed design.

1 Claim, 27 Drawing Sheets

(58) **Field of Classification Search**

CPC F02D 35/023; F02D 41/008; F02D
 2200/0406; F15B 15/149; F15B 15/1428;
 F15B 15/1438; F15B 15/1447; F15B
 15/1457; F15B 15/1461

See application file for complete search history.

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FIG. 1

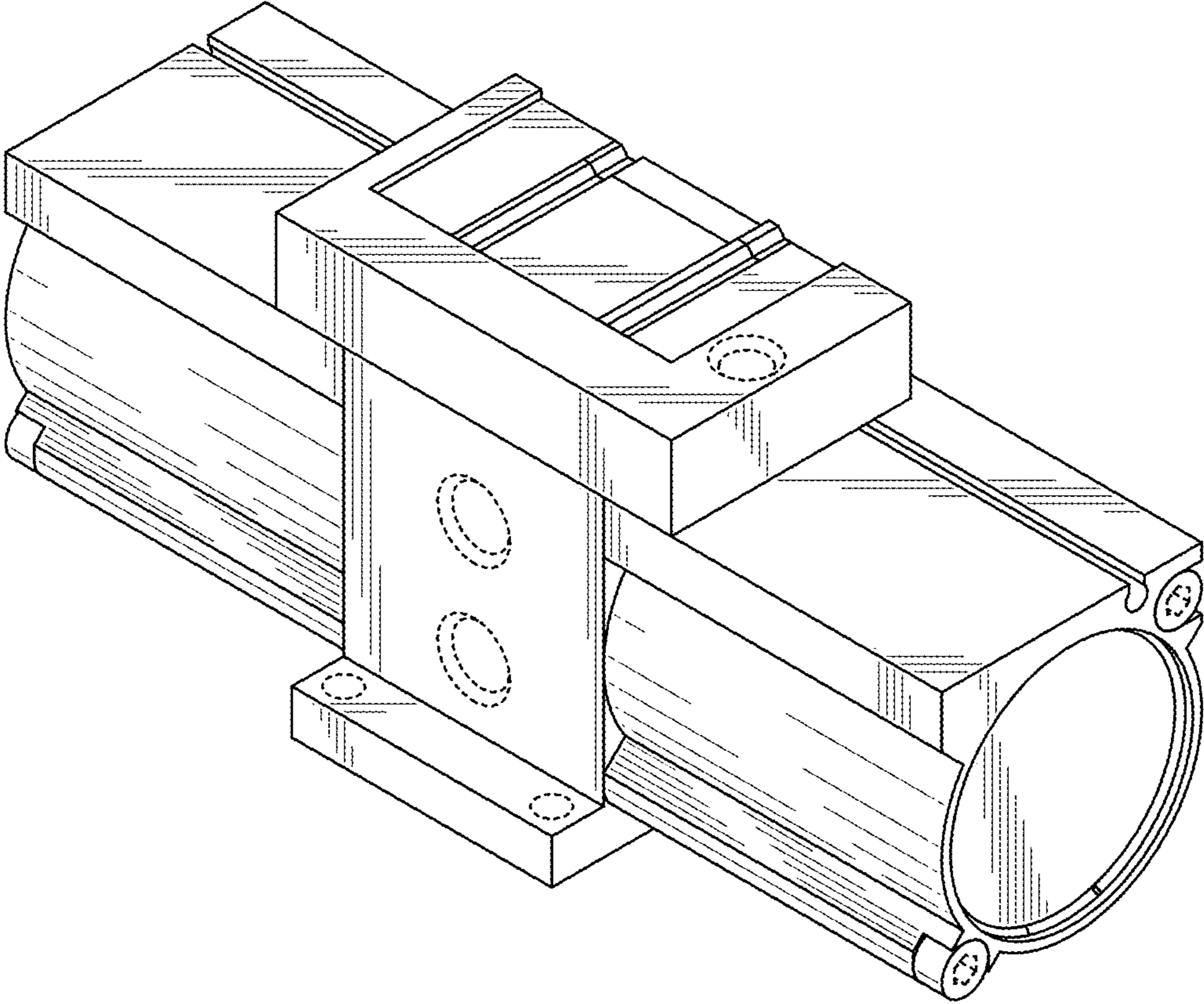


FIG. 2

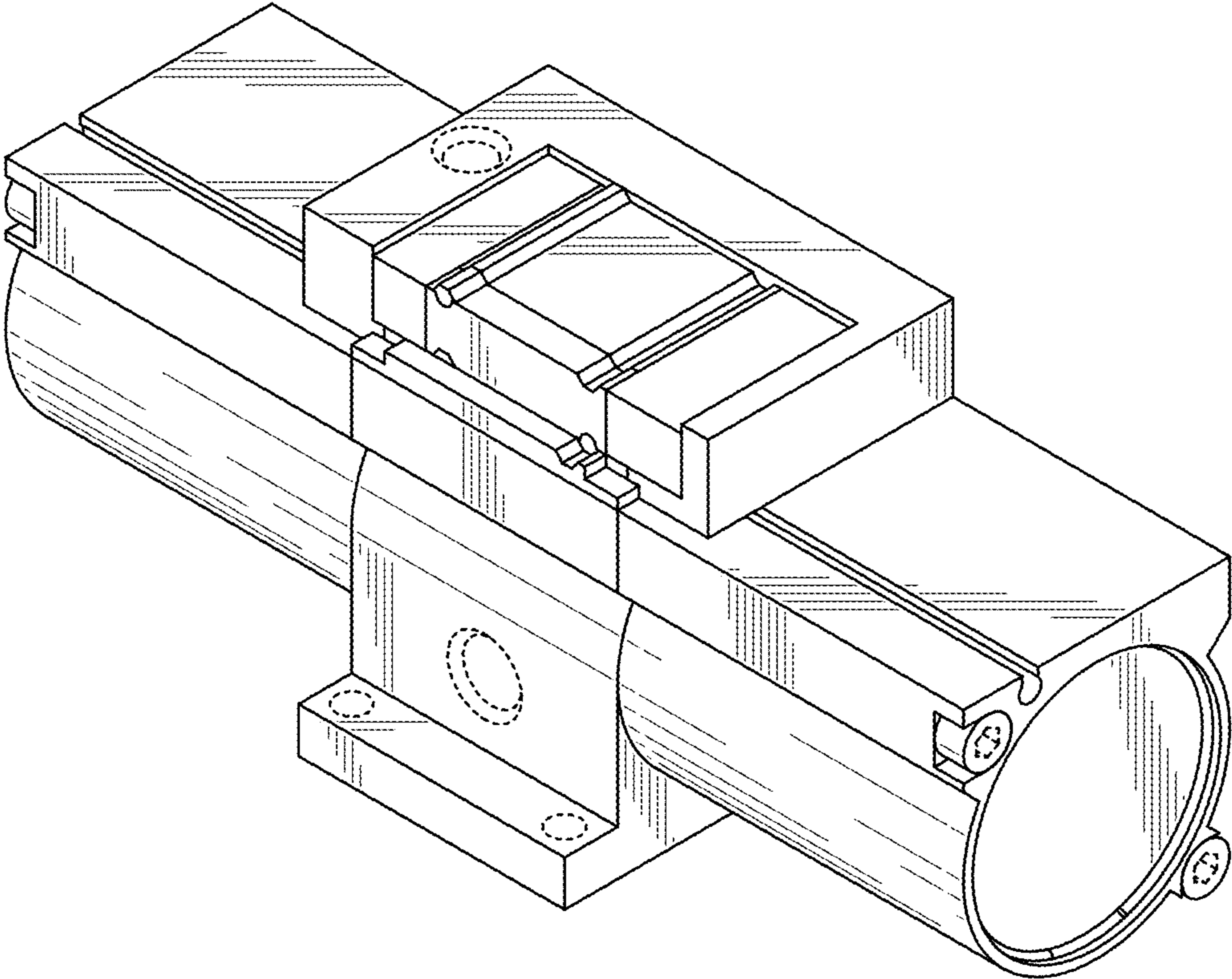


FIG. 3

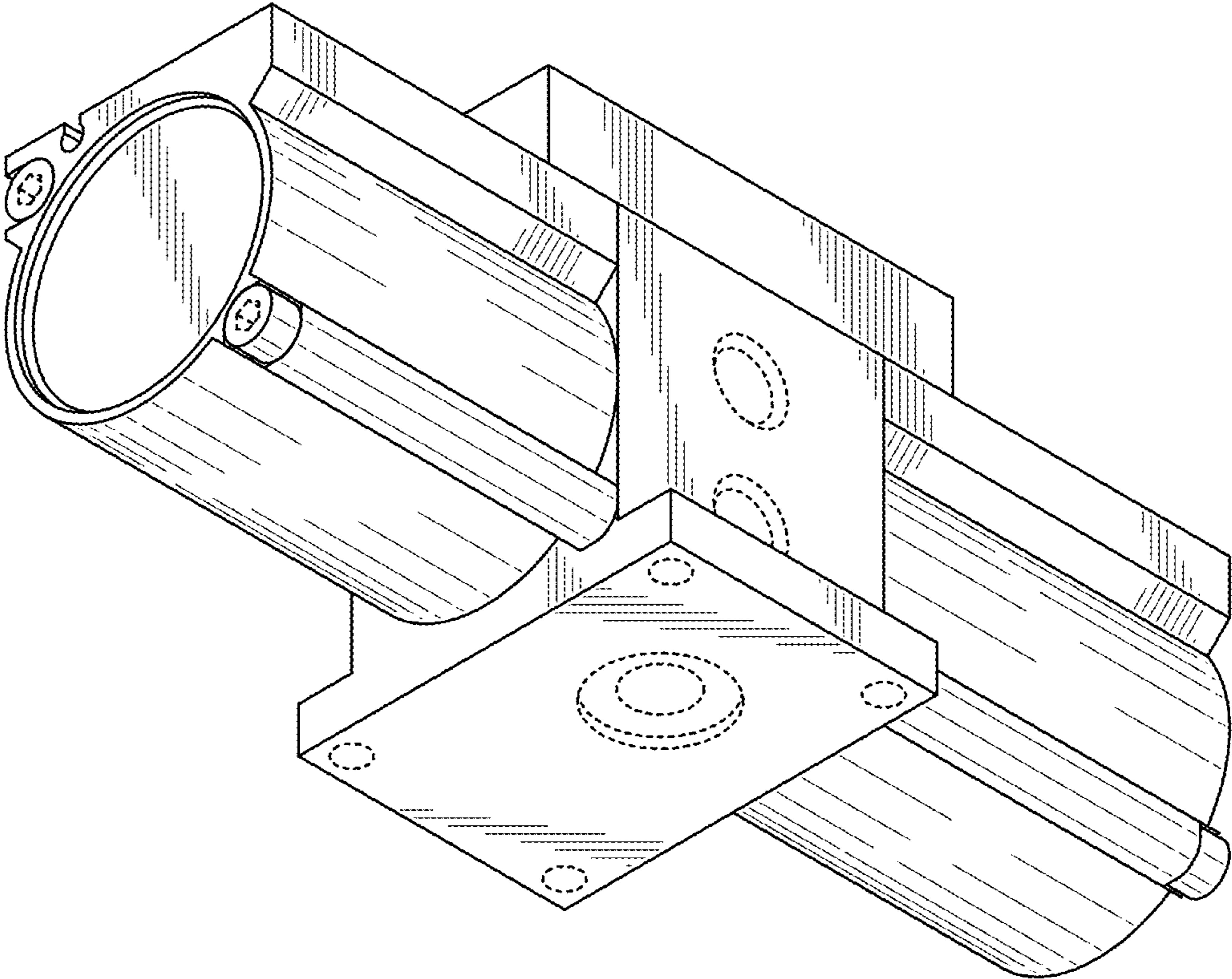


FIG. 4

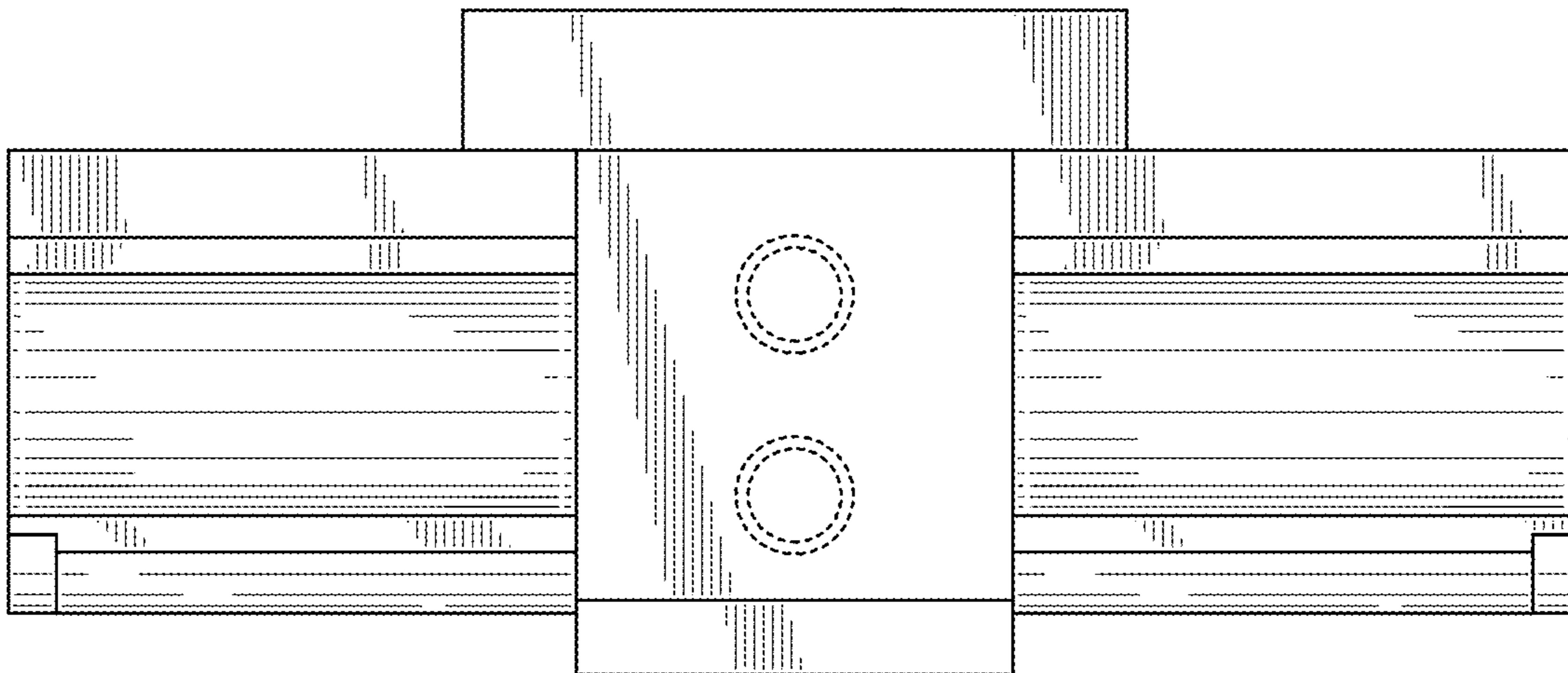


FIG. 5

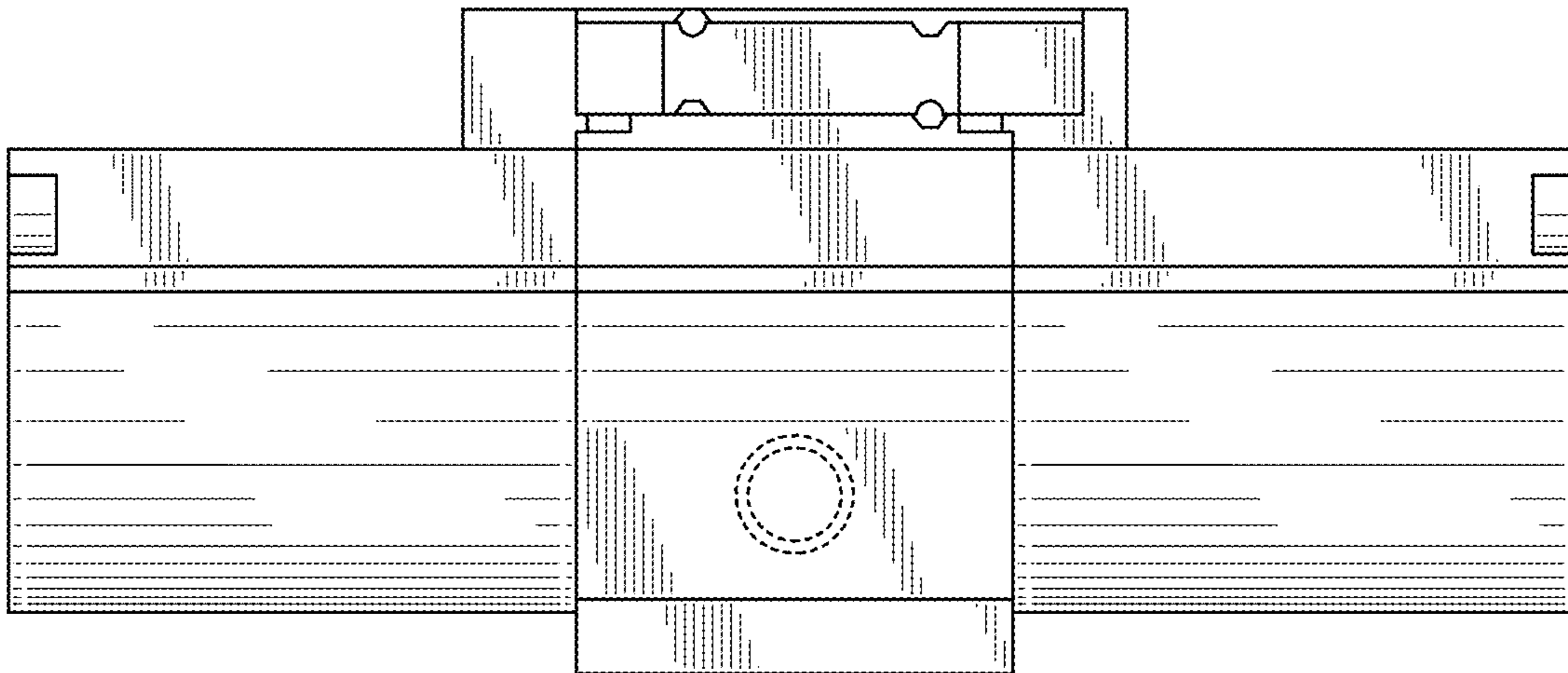


FIG. 6

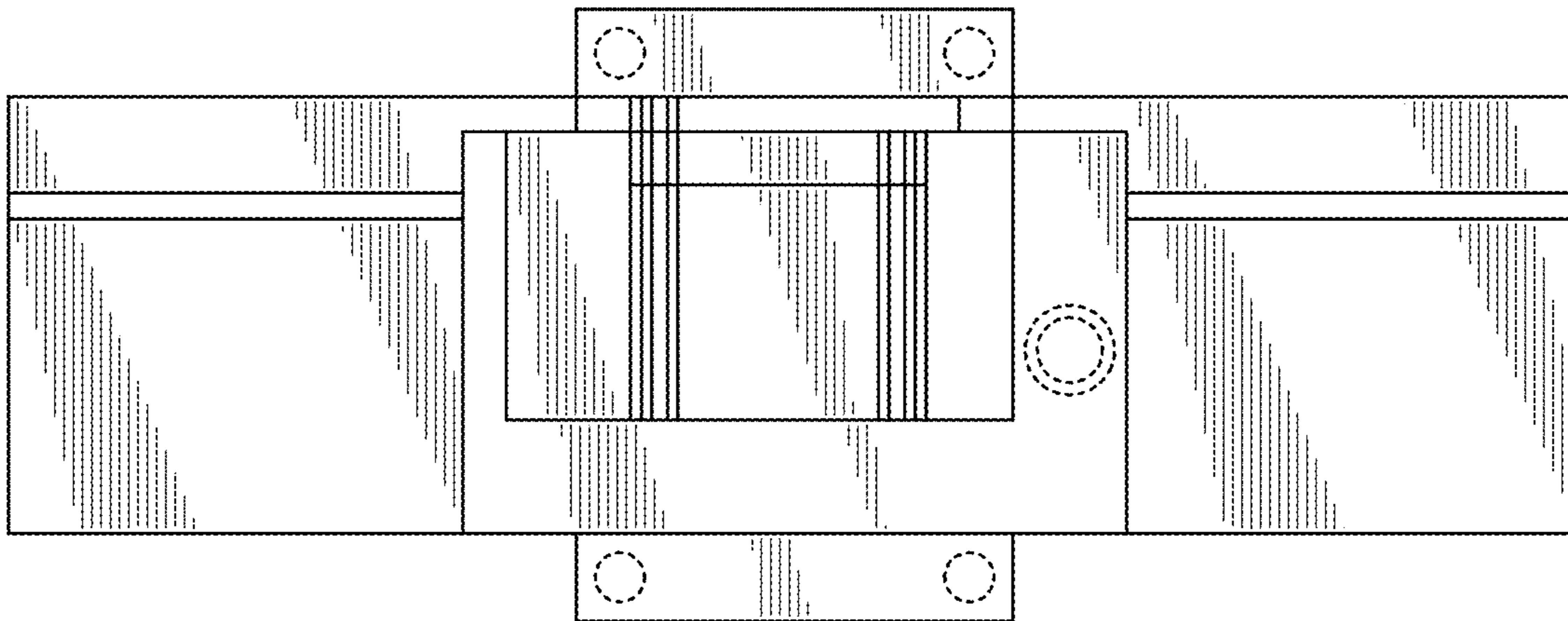


FIG. 7

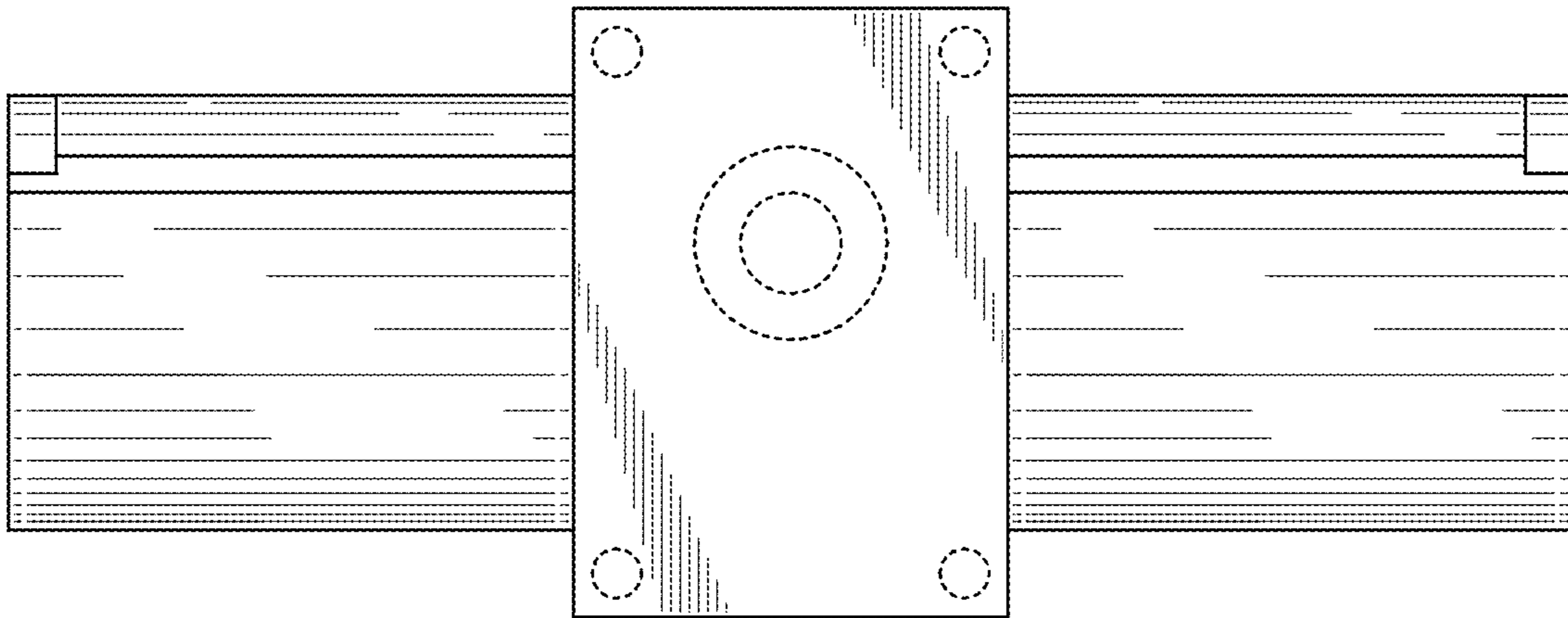


FIG. 8

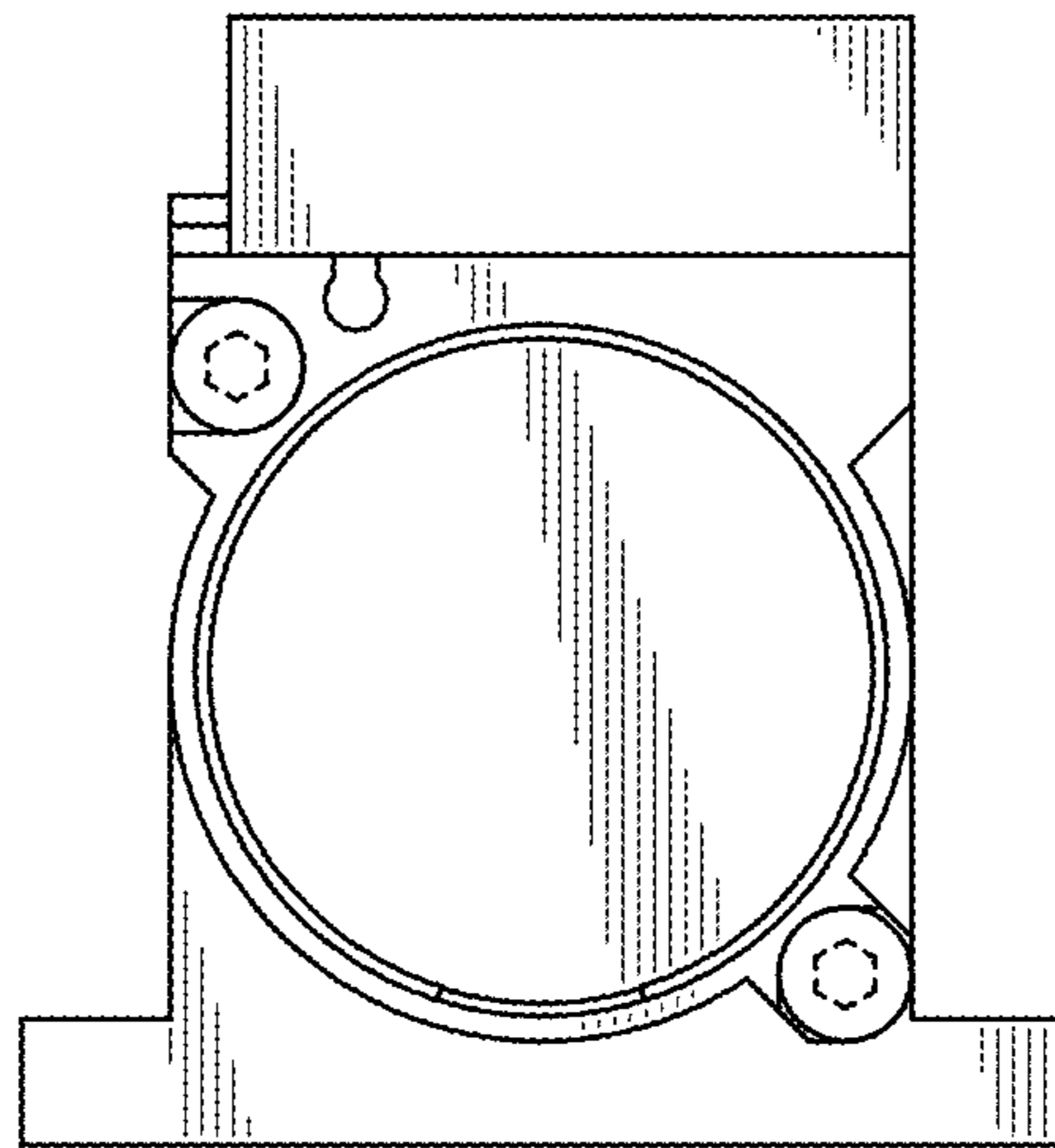


FIG. 9

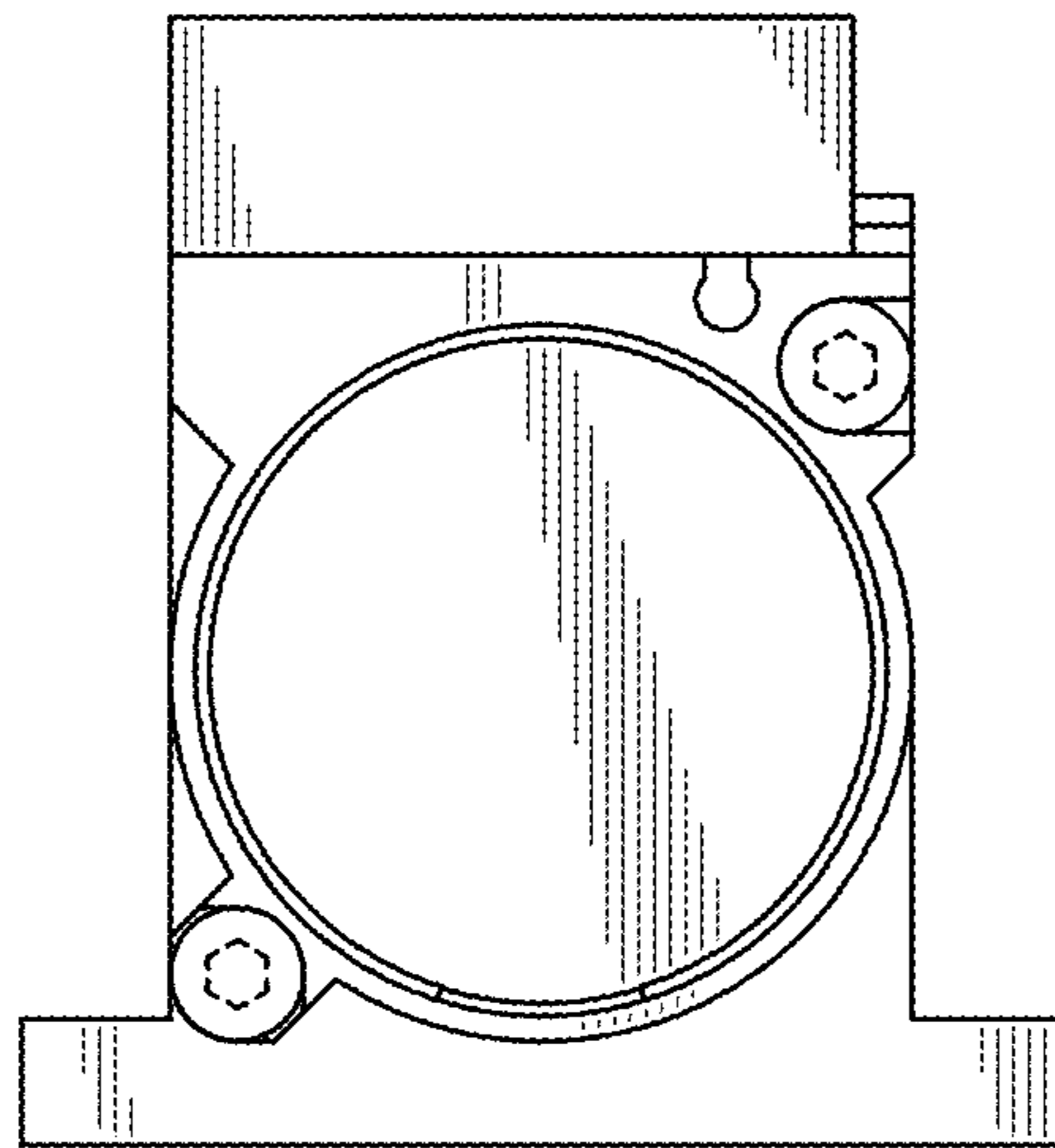


FIG. 10

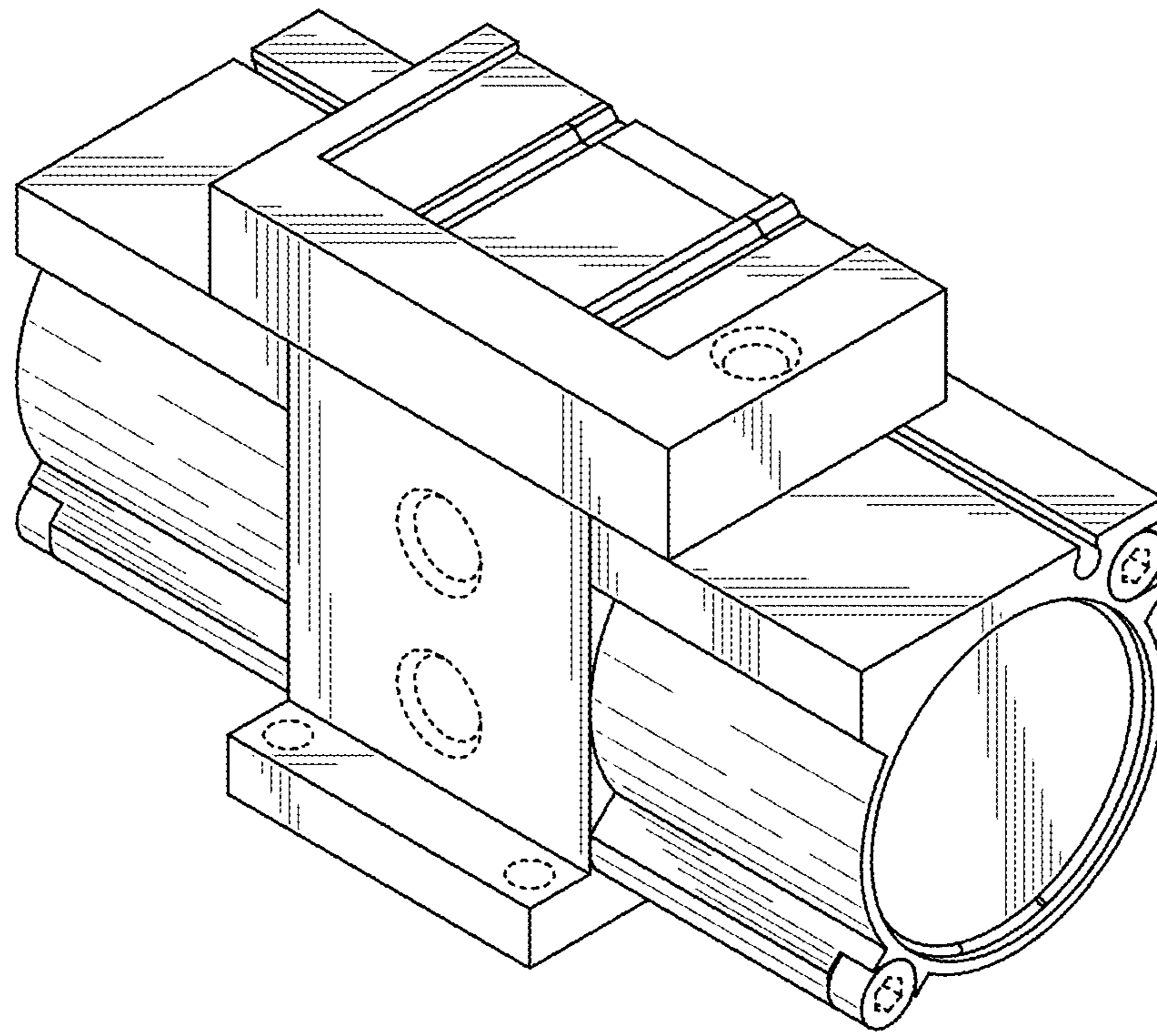


FIG. 11

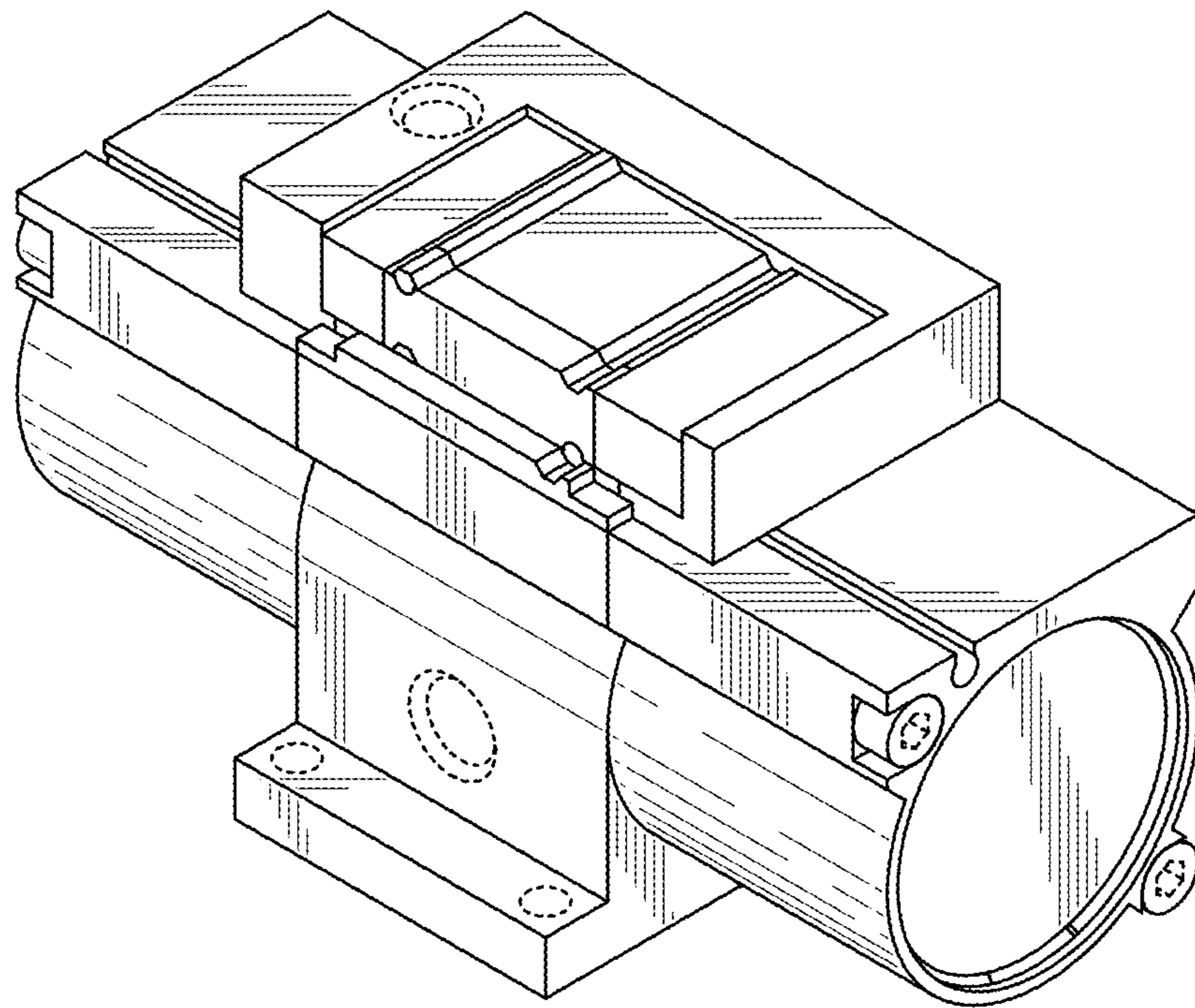


FIG. 12

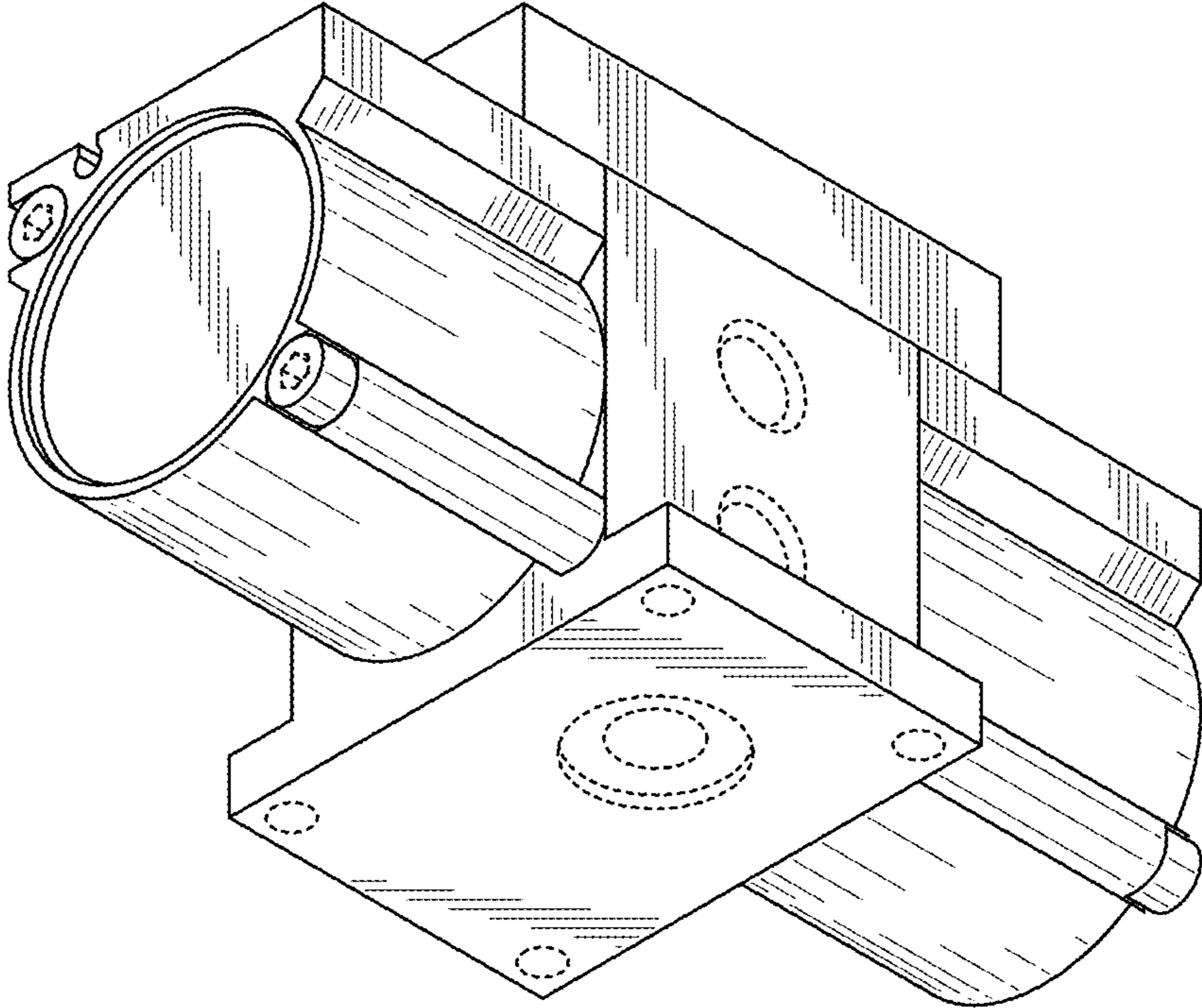


FIG. 13

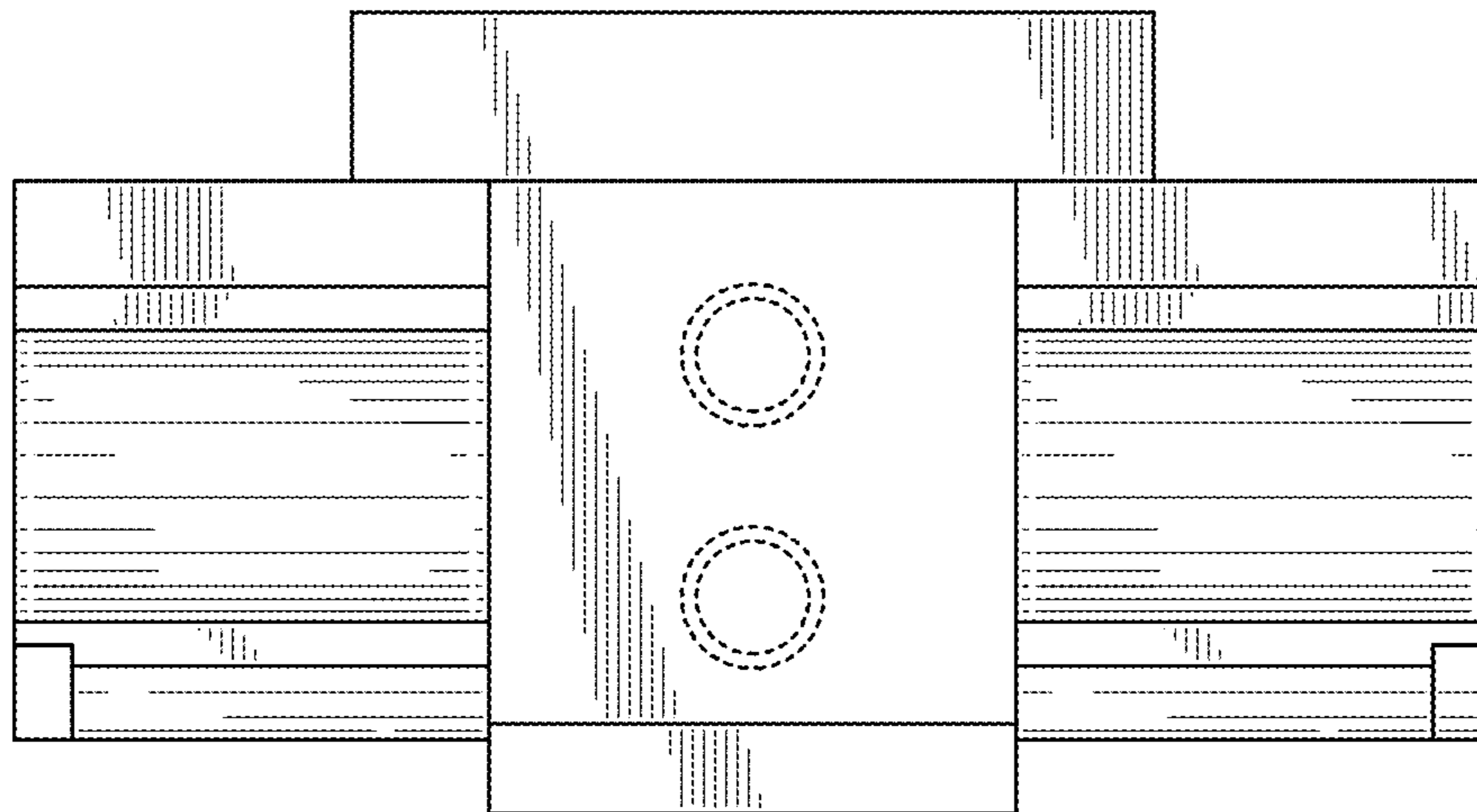


FIG. 14

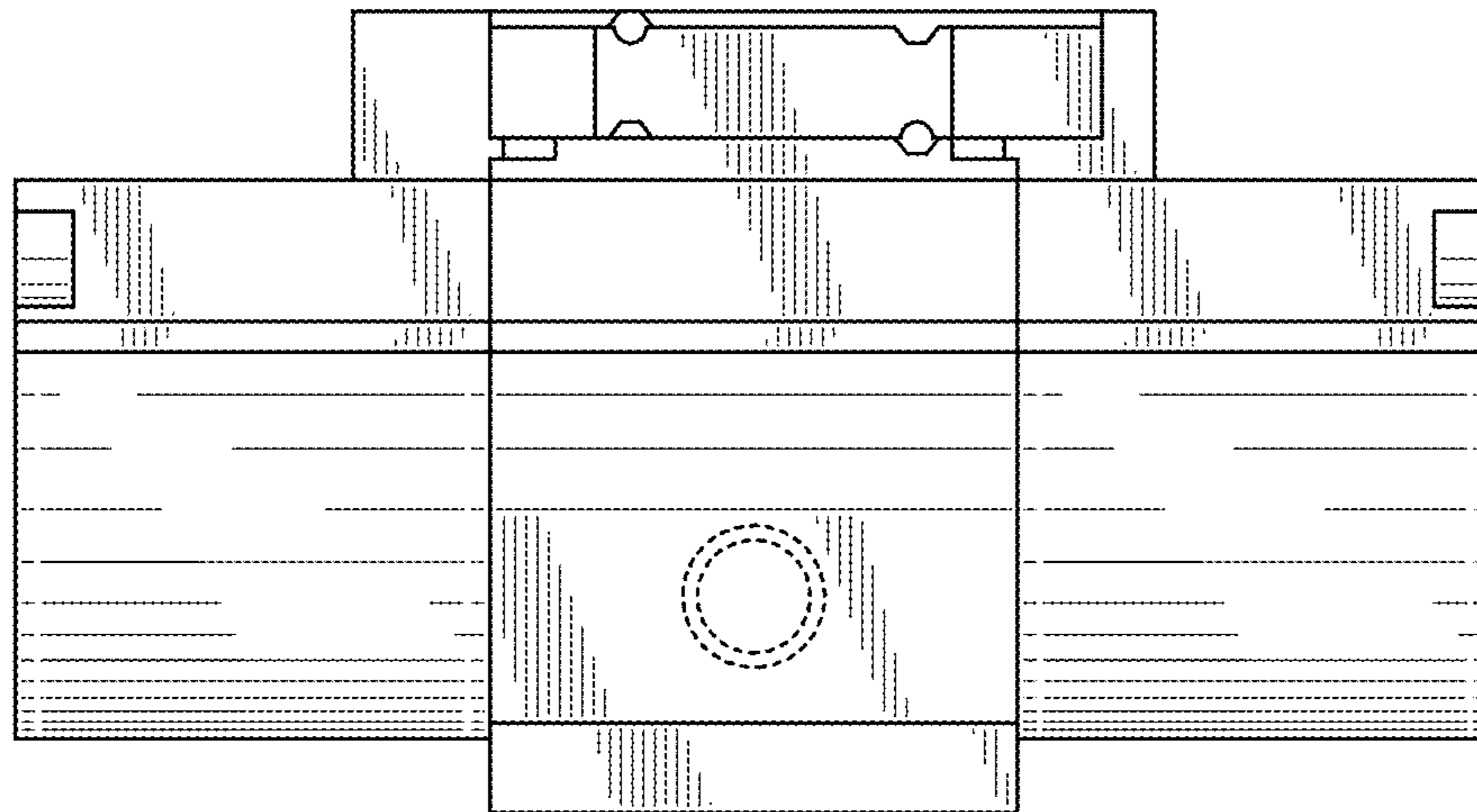


FIG. 15

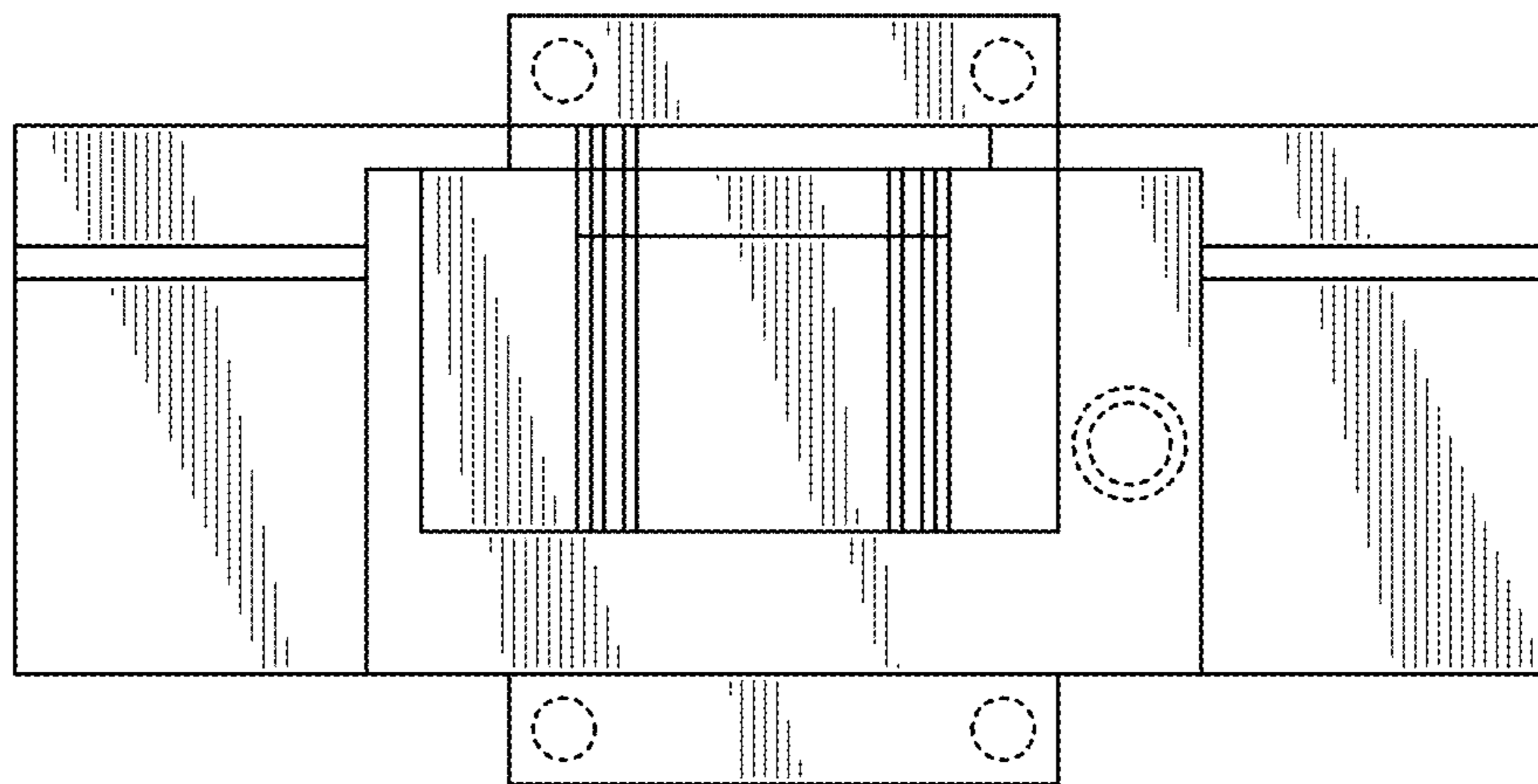


FIG. 16

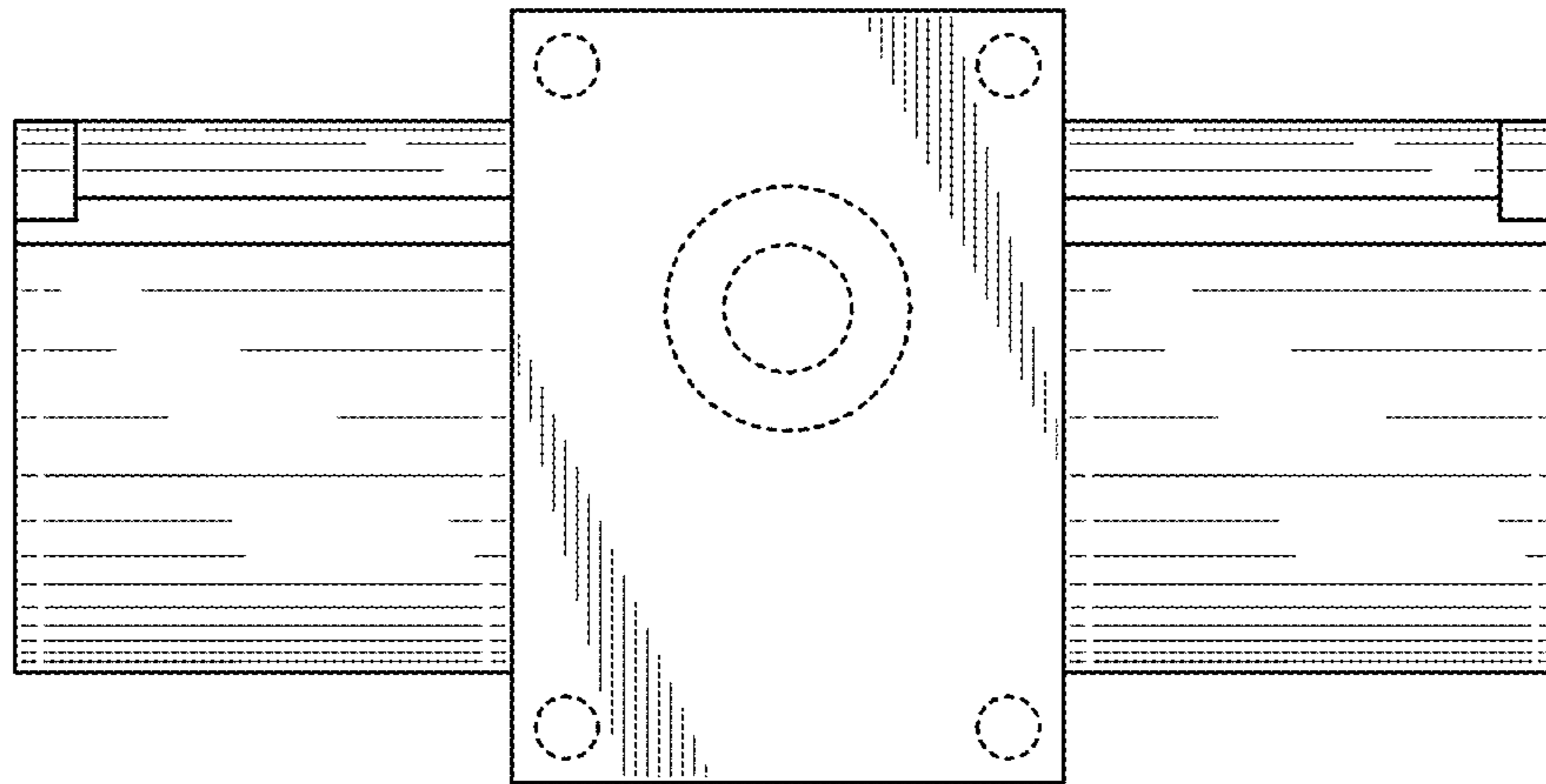


FIG. 17

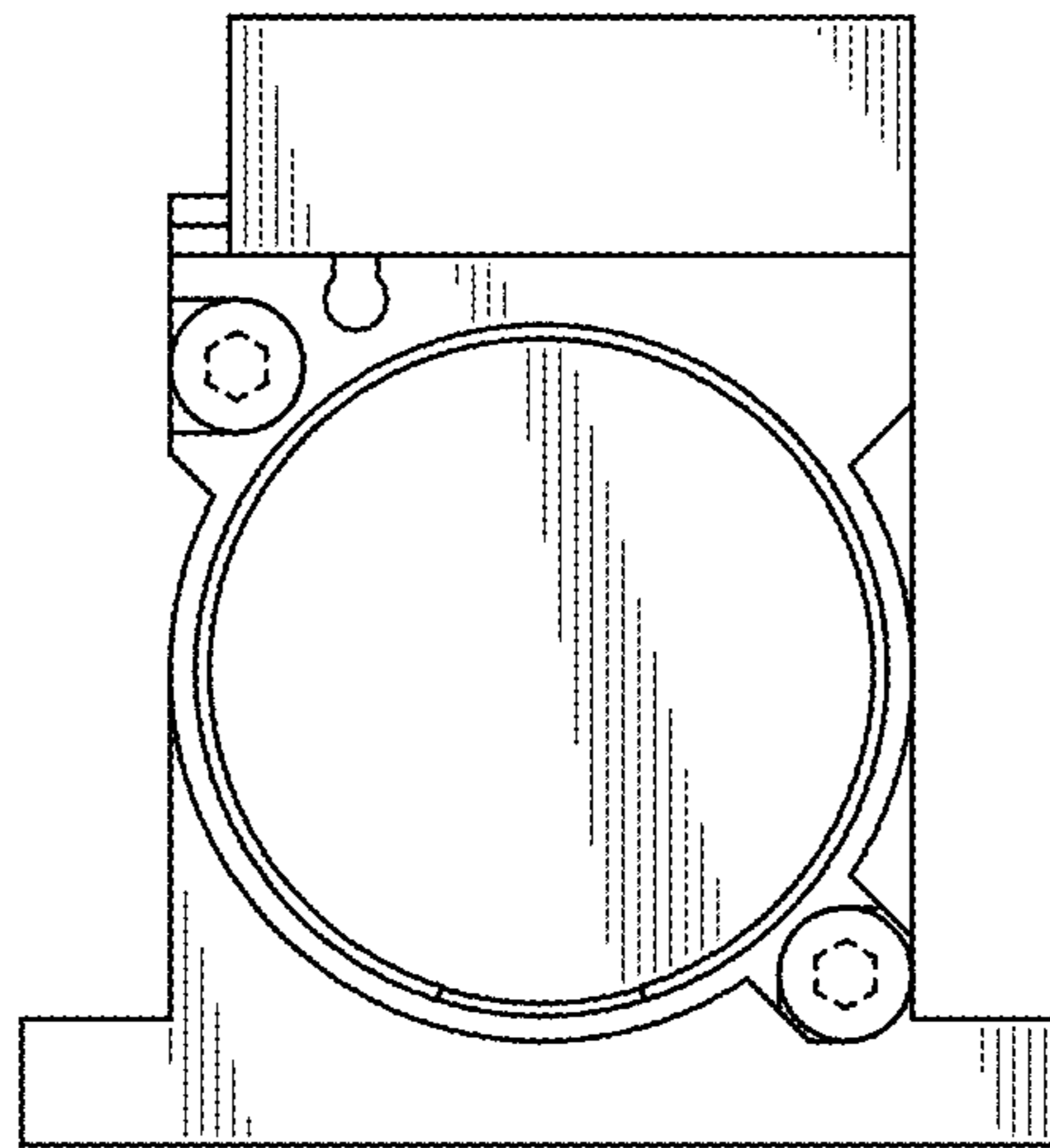


FIG. 18

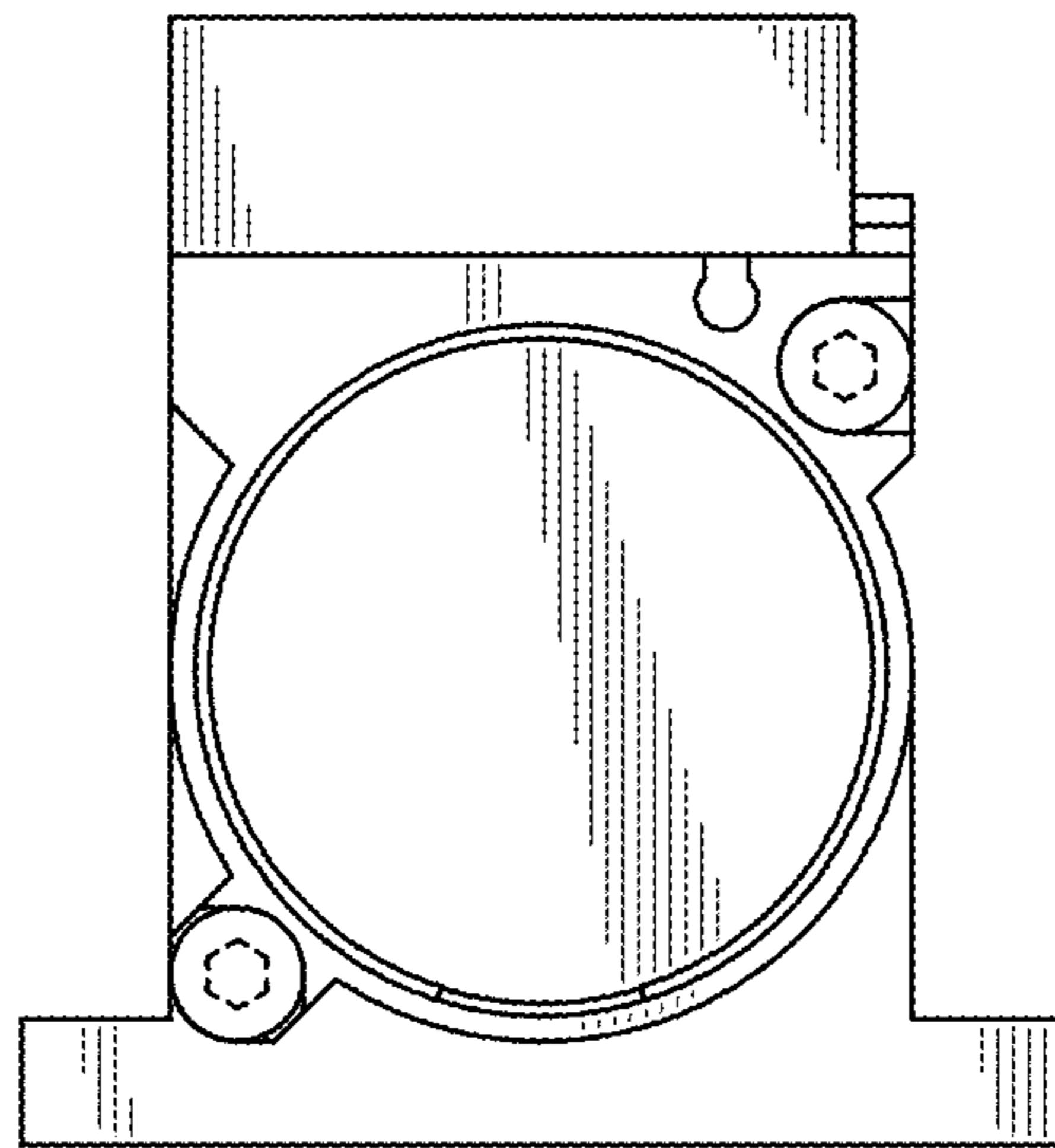


FIG. 19

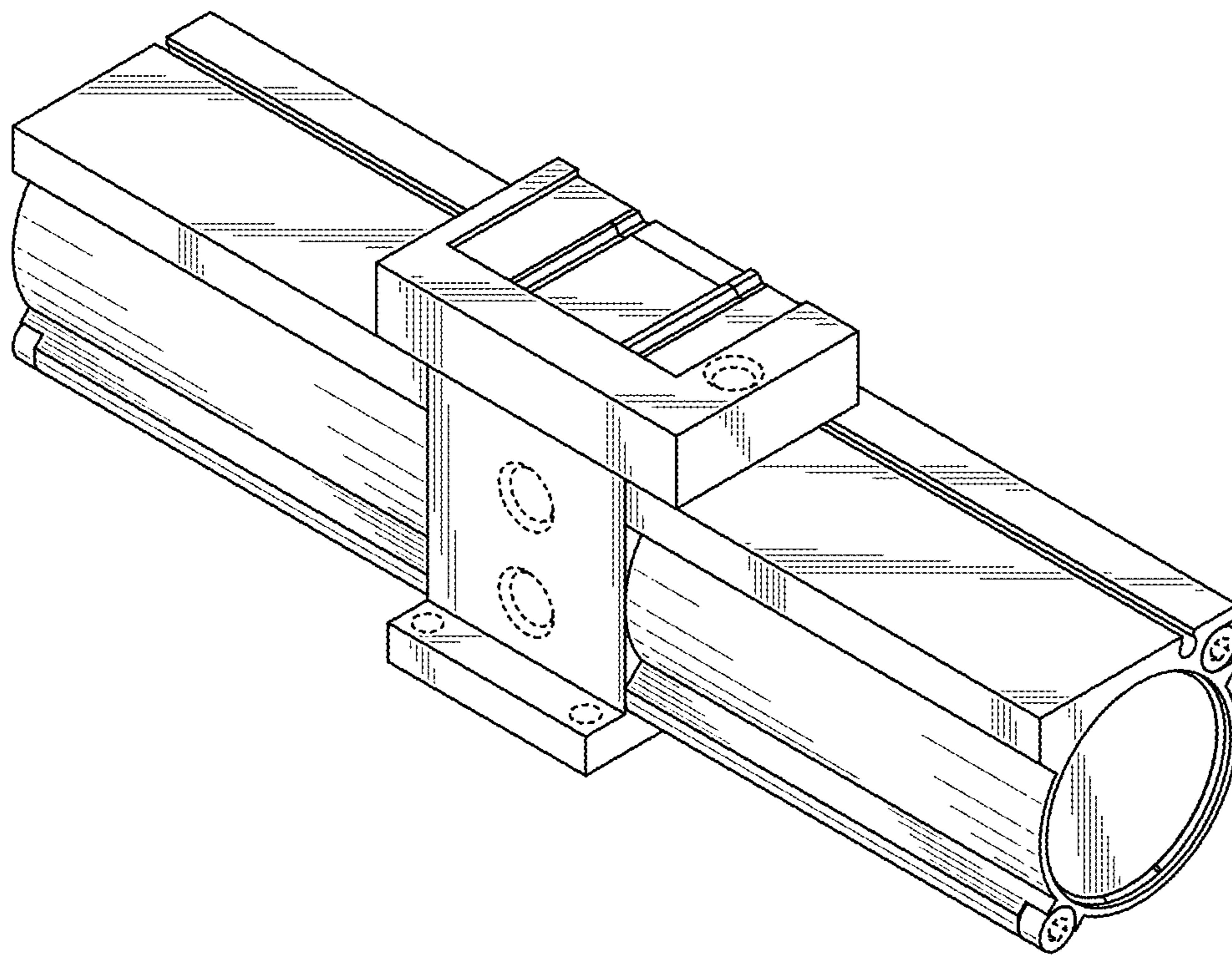


FIG. 20

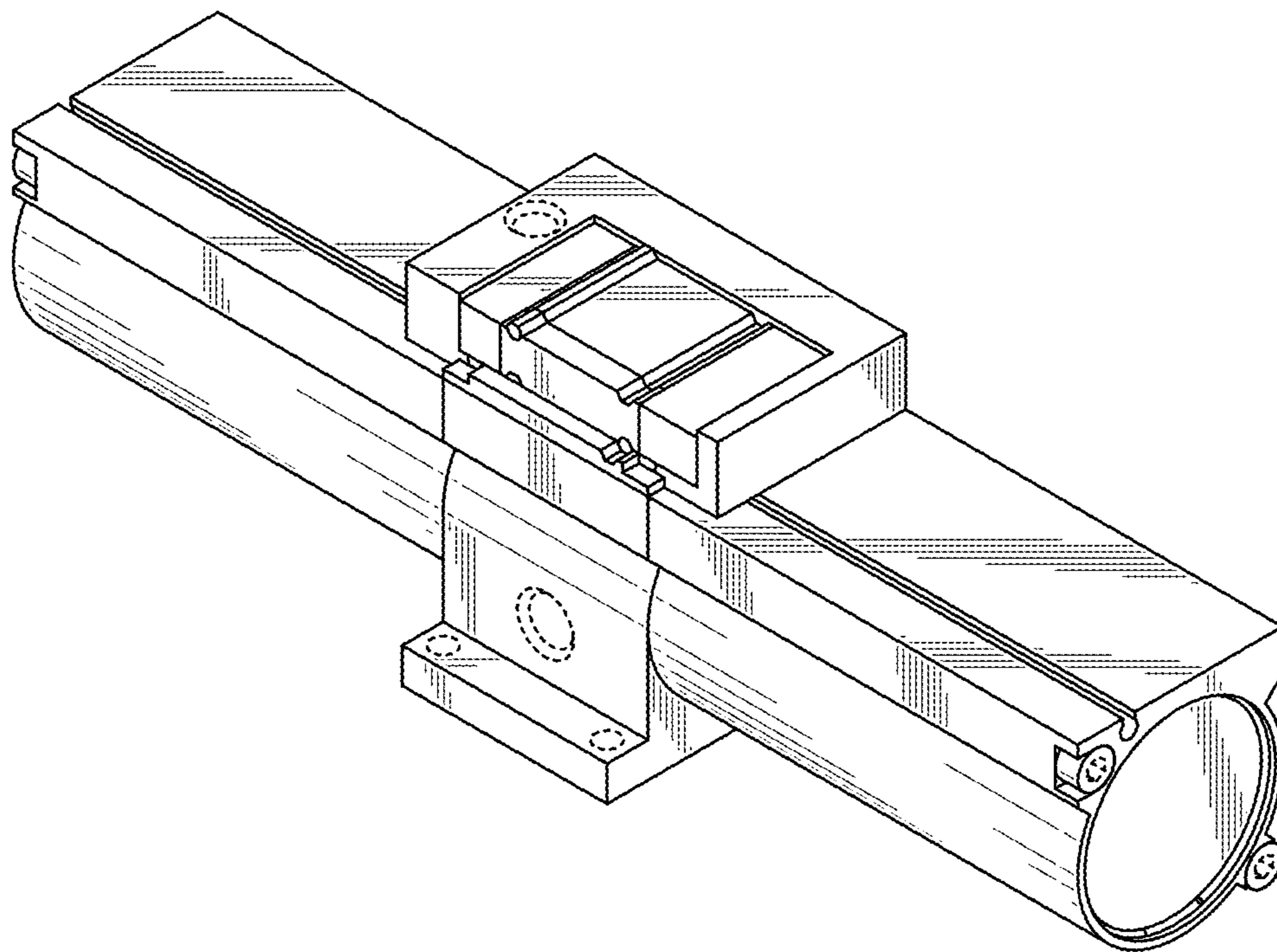


FIG. 21

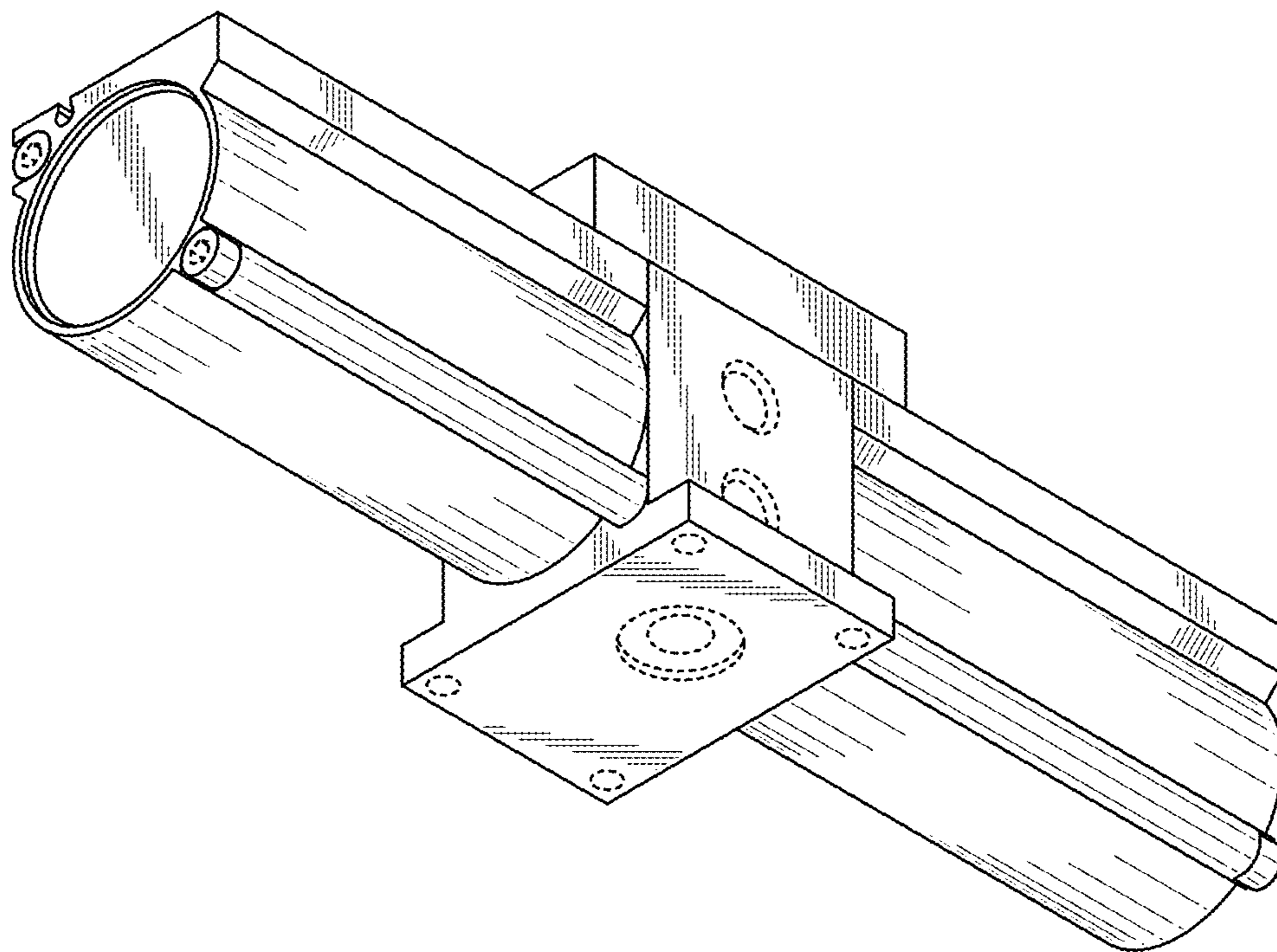


FIG. 22

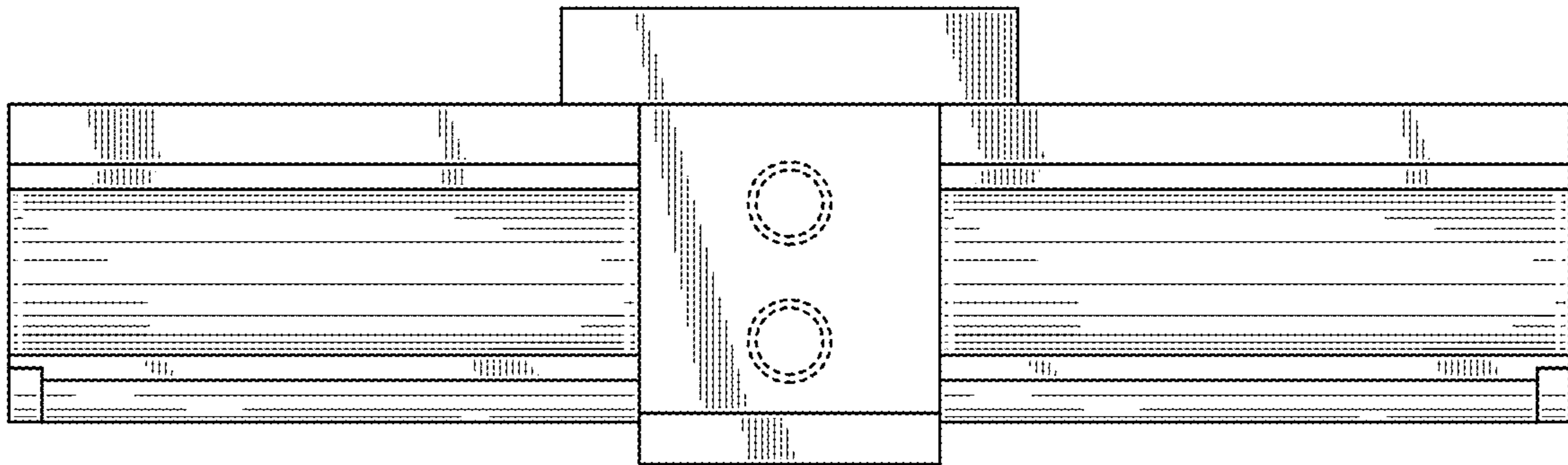


FIG. 23

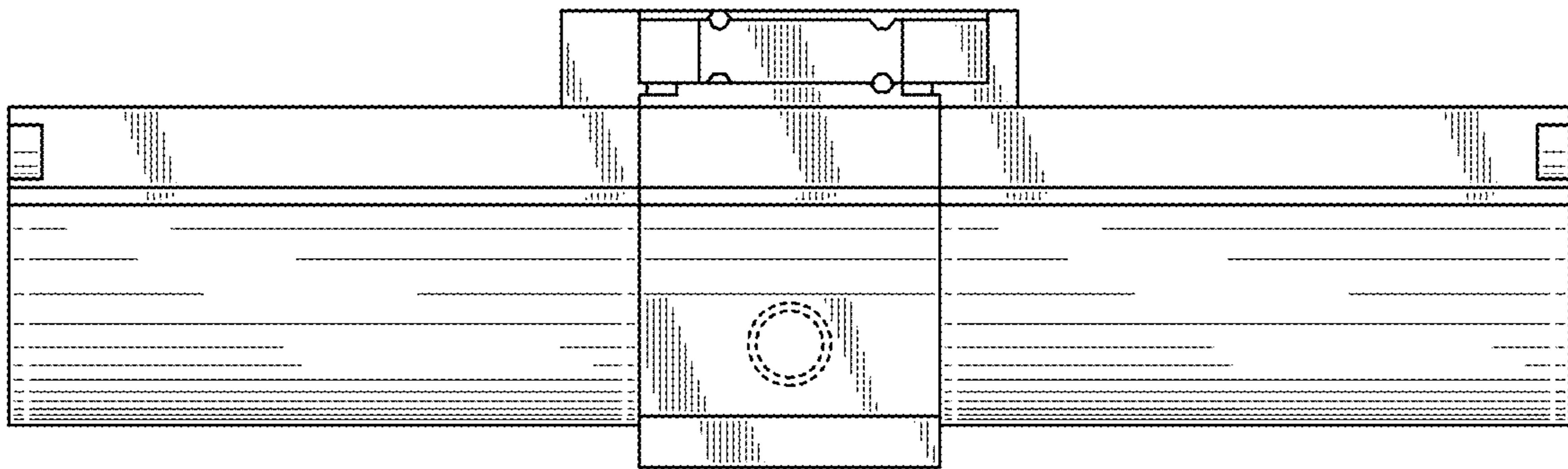


FIG. 24

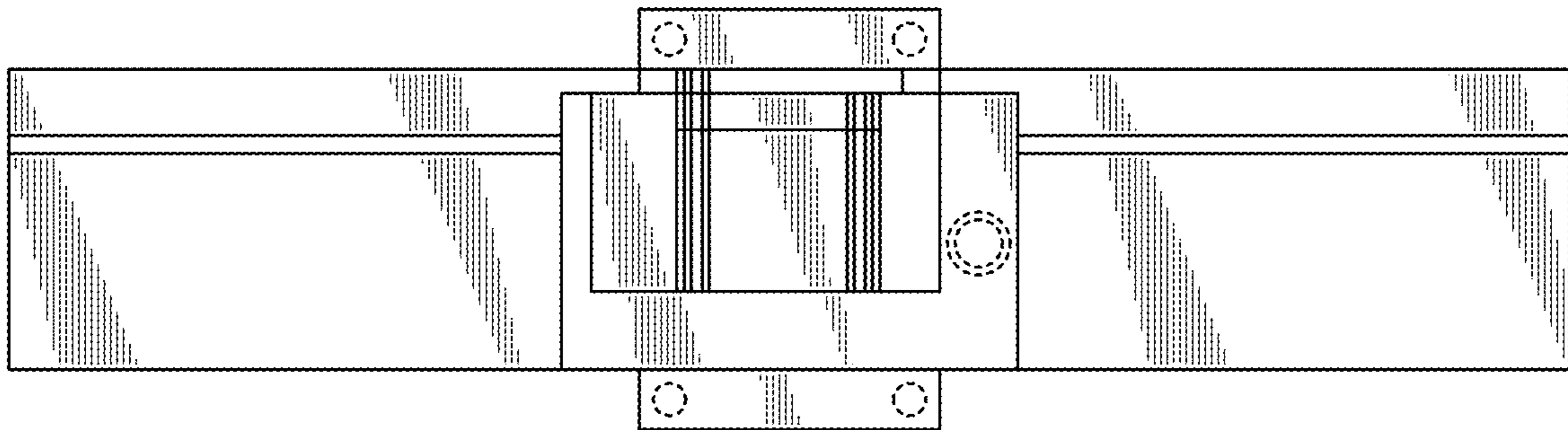


FIG. 25

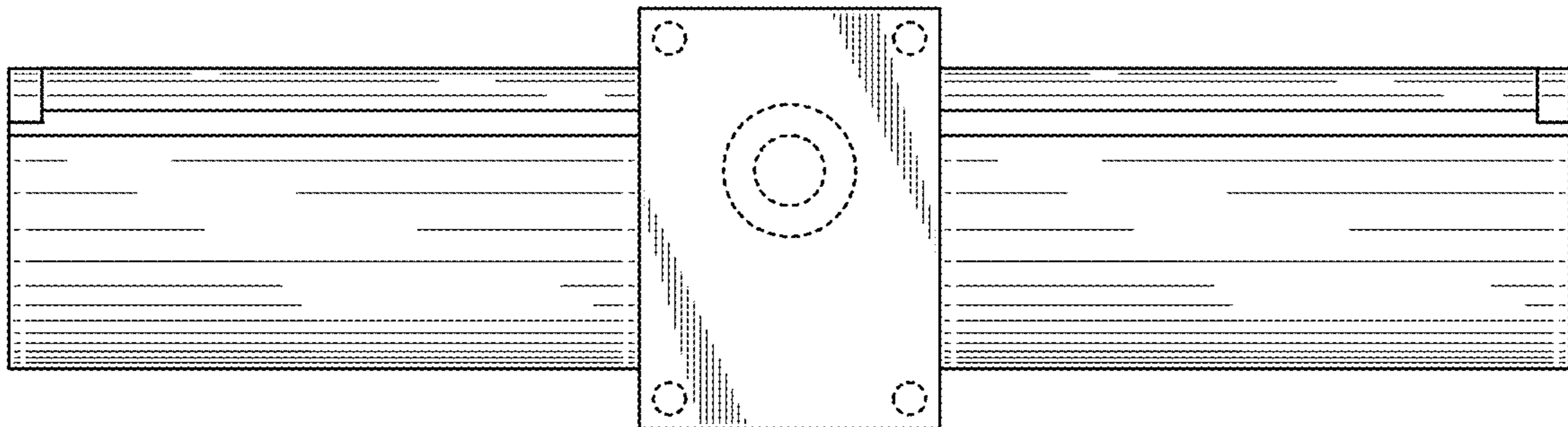


FIG. 26

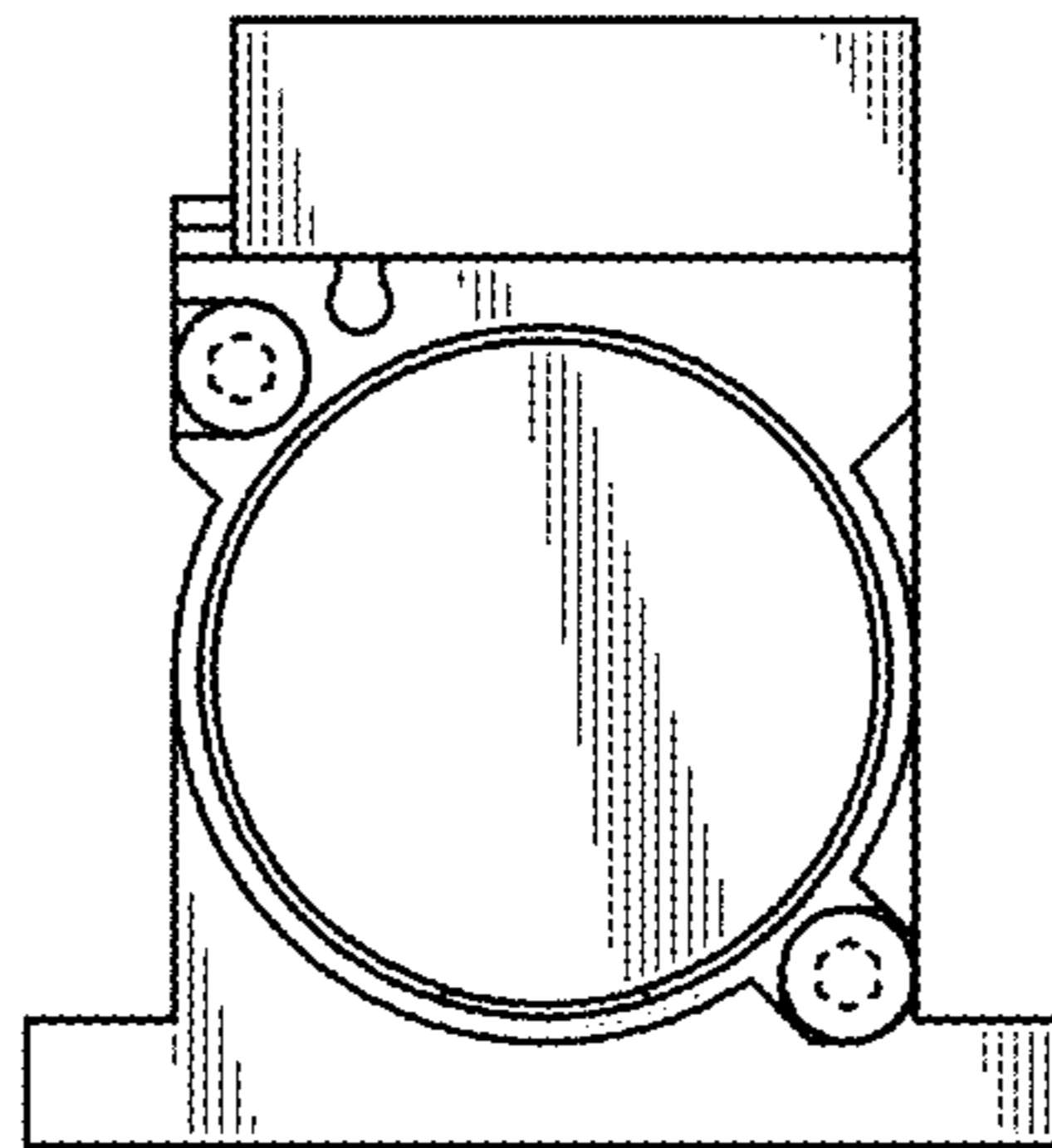


FIG. 27

