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Yoshida et al.

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(54) **ELECTROMAGNETIC VALVE**

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(30) **Foreign Application Priority Data**

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(51) **LOC (10) Cl.** **23-01**

(52) **U.S. Cl.**
USPC **D23/233**

(58) **Field of Classification Search**
USPC D23/233-237, 244-249; D15/5, 7;
137/15.04, 15.08, 515, 7, 859, 843,
137/332, 529, 533.17, 540, 54, 543.17,
137/512.1; 251/333
CPC F16K 15/00; F16K 15/18; F16K 15/026;
F16K 15/044; B60T 17/04
See application file for complete search history.

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(57) **CLAIM**

The ornamental design for an electromagnetic valve, as shown and described.

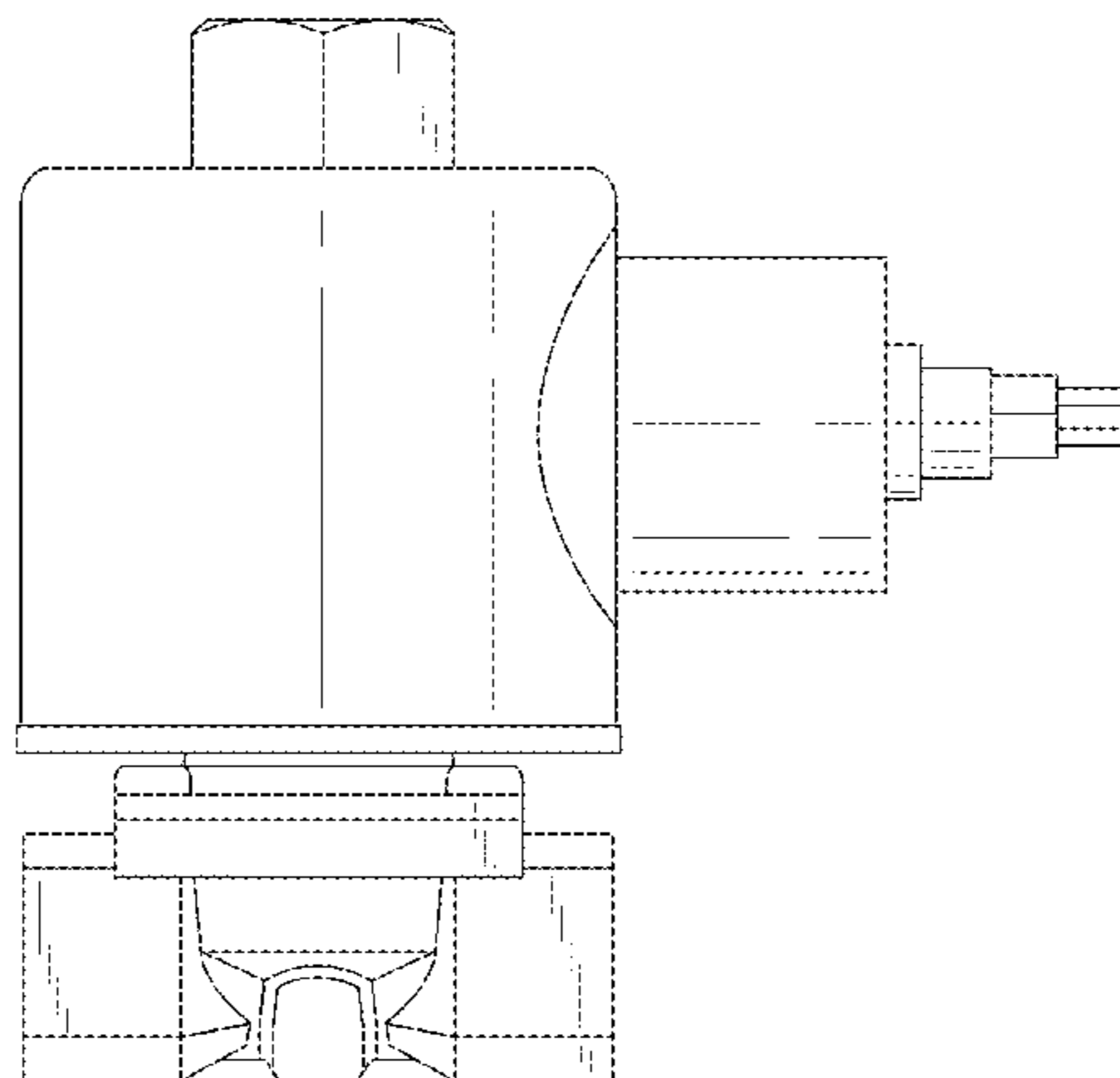
DESCRIPTION

FIG. 1 shows a front view of an electromagnetic valve showing our new design;
FIG. 2 shows a rear view thereof;
FIG. 3 shows a right side view thereof;
FIG. 4 shows a left side view thereof;
FIG. 5 shows a top view thereof;
FIG. 6 shows a bottom view thereof; and,
FIG. 7 shows a top, front and right side perspective view thereof.

The portions of the design shown in broken lines in FIG. 6 are for the purpose of illustrating the environment only and form no part of the claimed design.

The present article is an electromagnetic valve used for controlling an operation of fluid pressure devices such as a fluid pressure cylinder by connecting or shutting off pressure fluid supplied to the fluid pressure devices. The electromagnetic valve has a body portion that houses a not illustrated valve body and a cover portion that is continuously provided at an upper part of the body portion. At both ends in a longitudinal direction of the body portion, a port for introducing the fluid and a port for deriving the fluid are provided. Inside the cover portion, a plunger (moving core) and a solenoid coil are housed. Lead wires are provided for supplying electricity and receiving control signals. When using the electromagnetic valve, the plunger is displaced by supplying or cutting off the electricity to the solenoid coil. If the plunger is displaced, the ports are connected or shut off and therefore a flow state of the pressure fluid is switched.

1 Claim, 6 Drawing Sheets



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FIG. 1

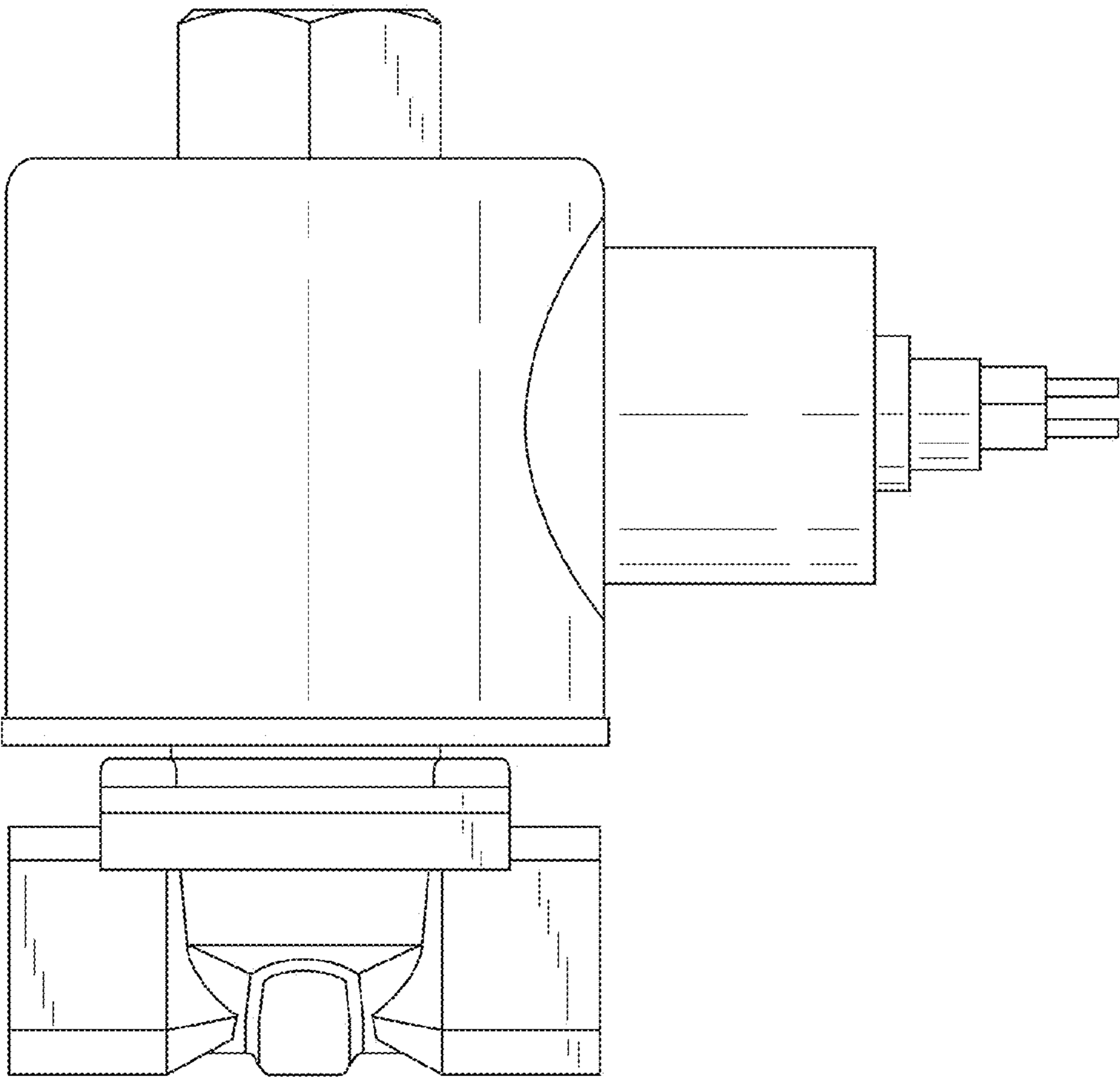


FIG. 2

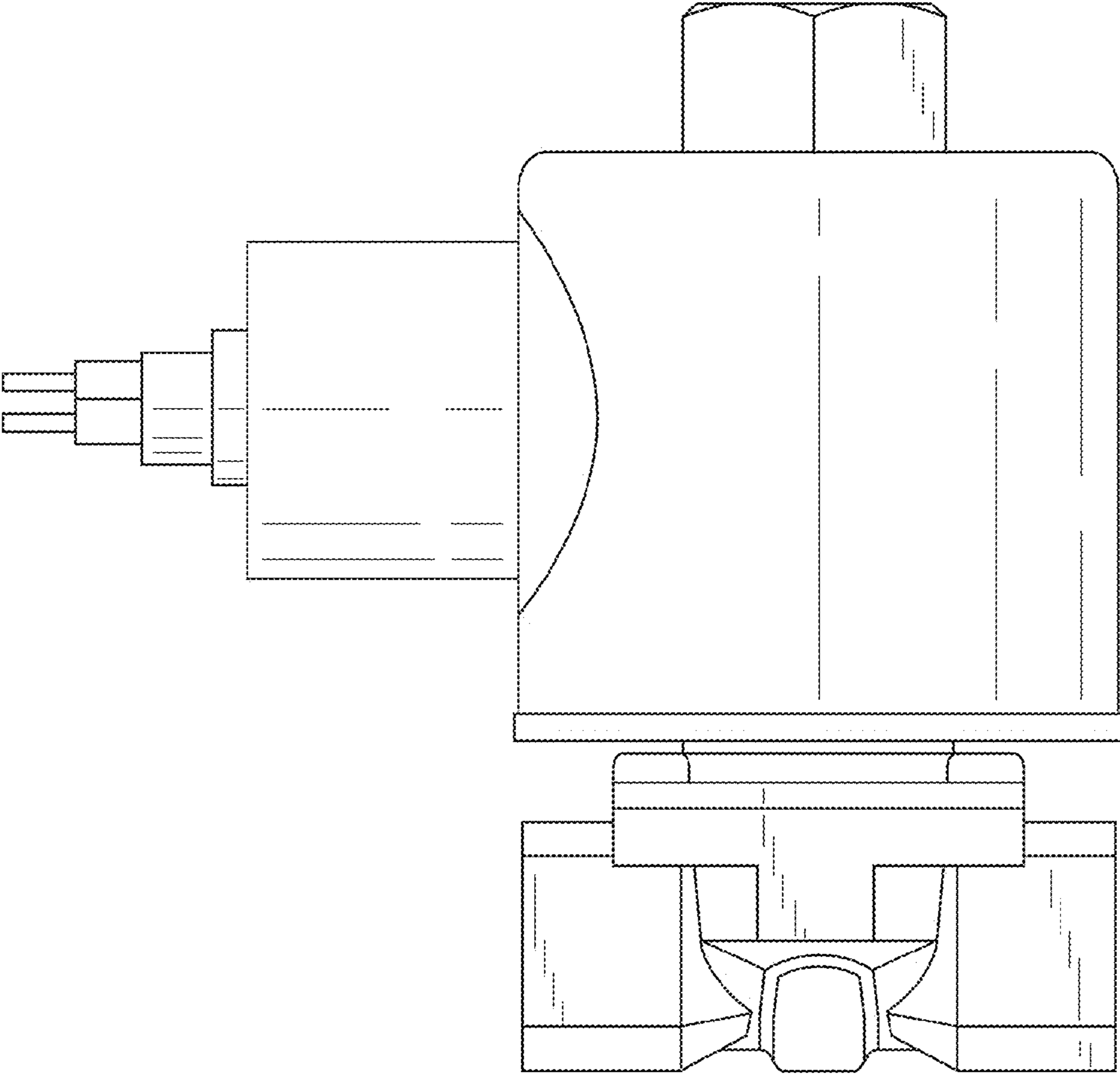


FIG. 3

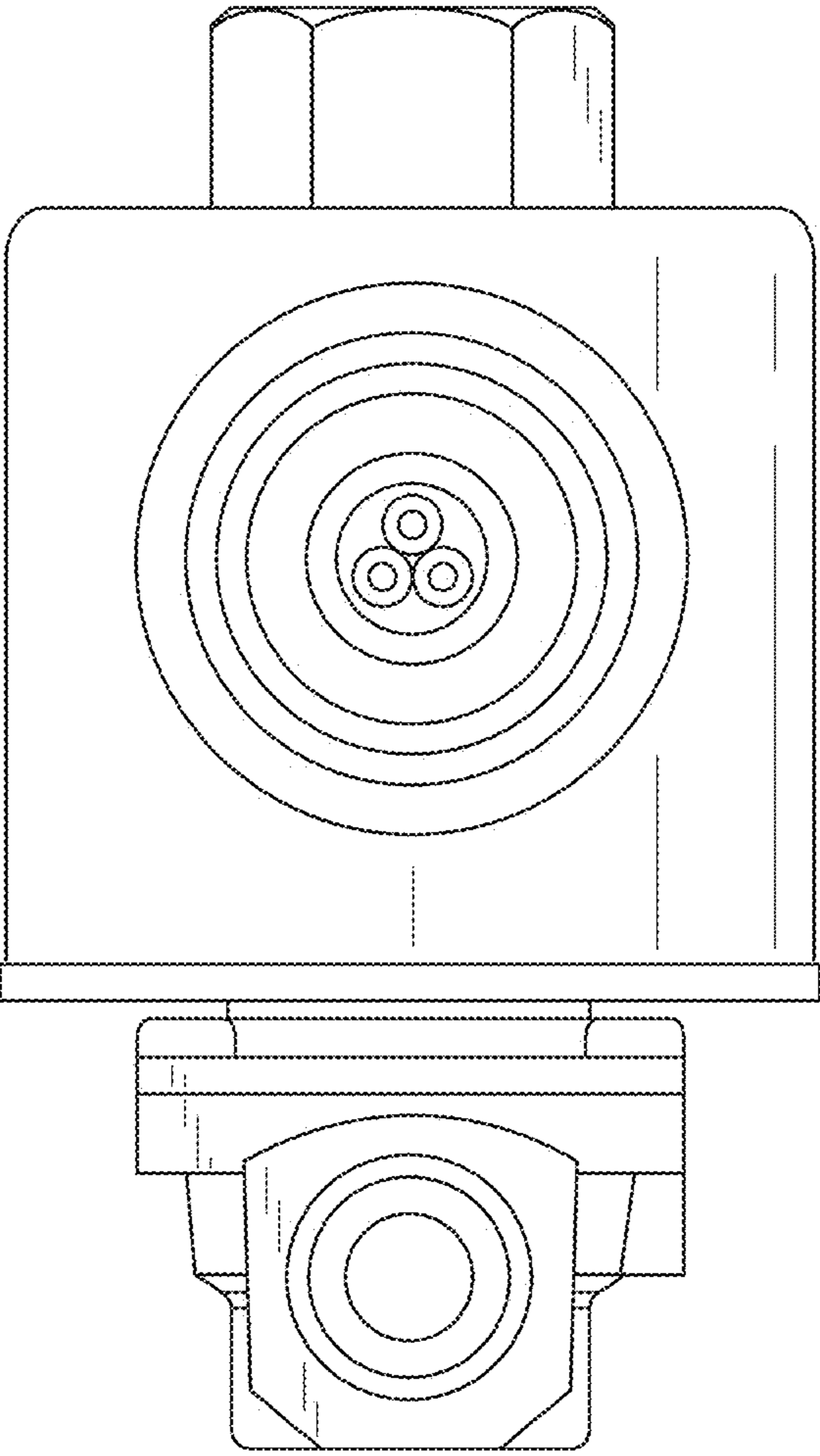


FIG. 4

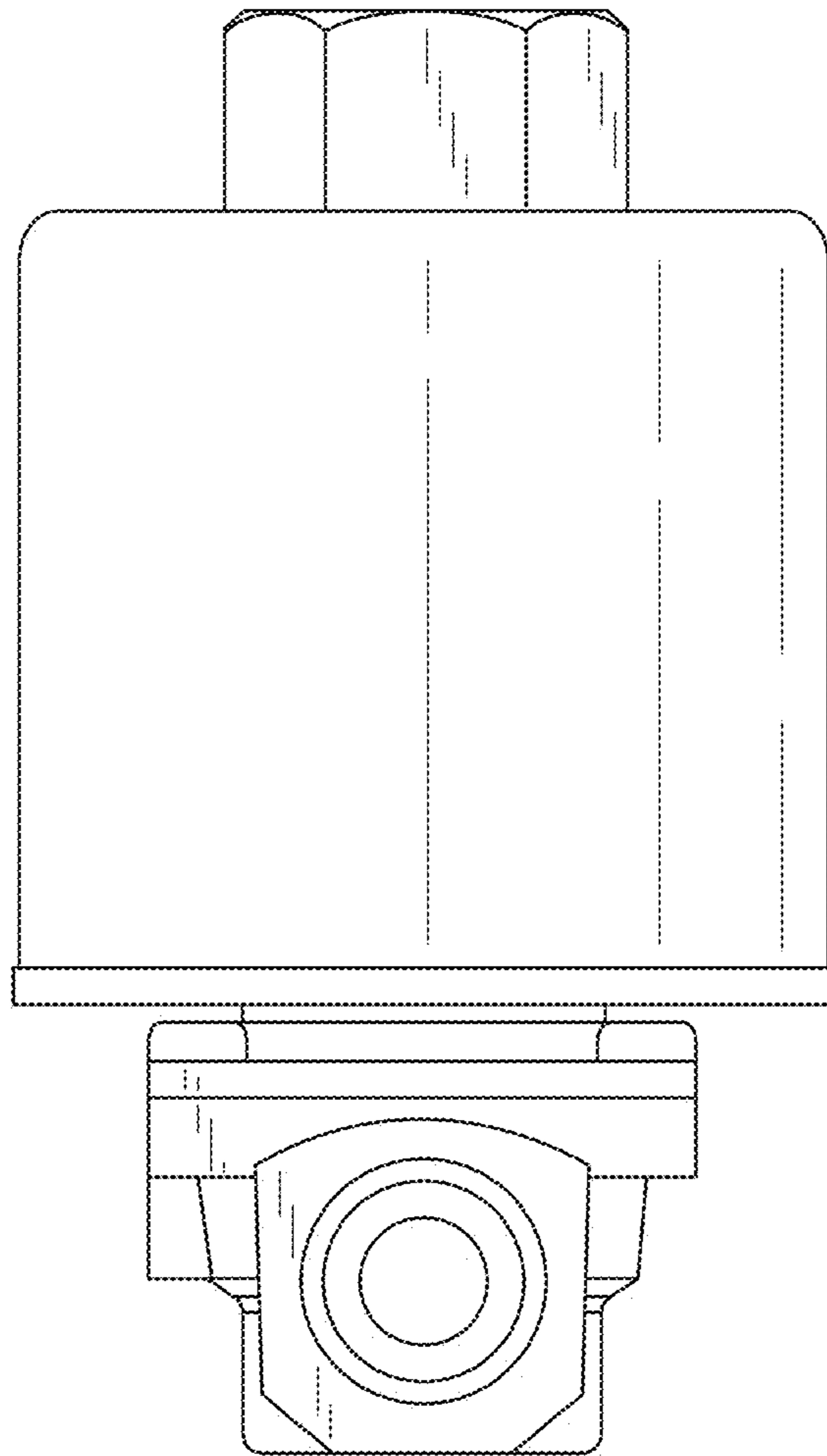


FIG. 5

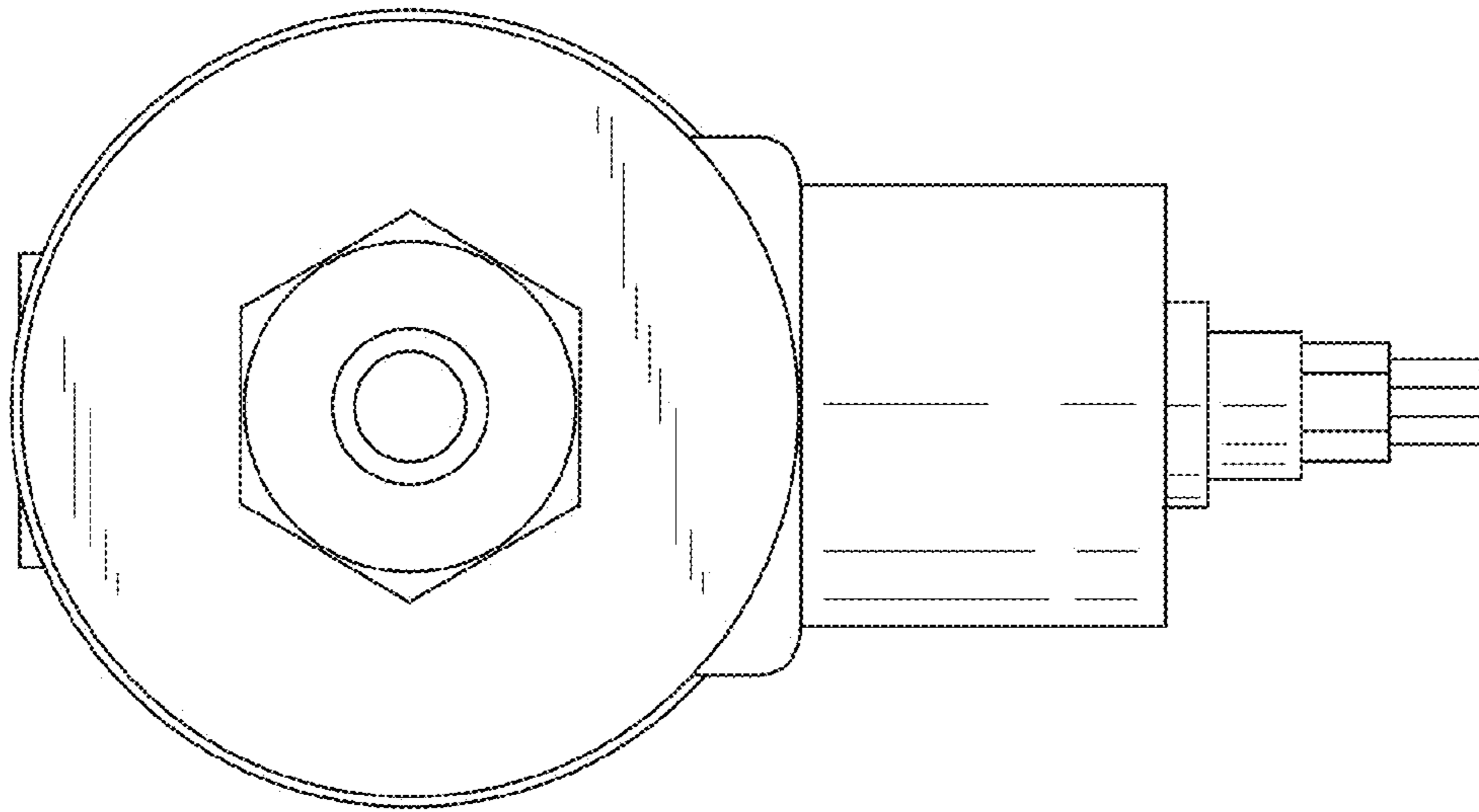


FIG. 6

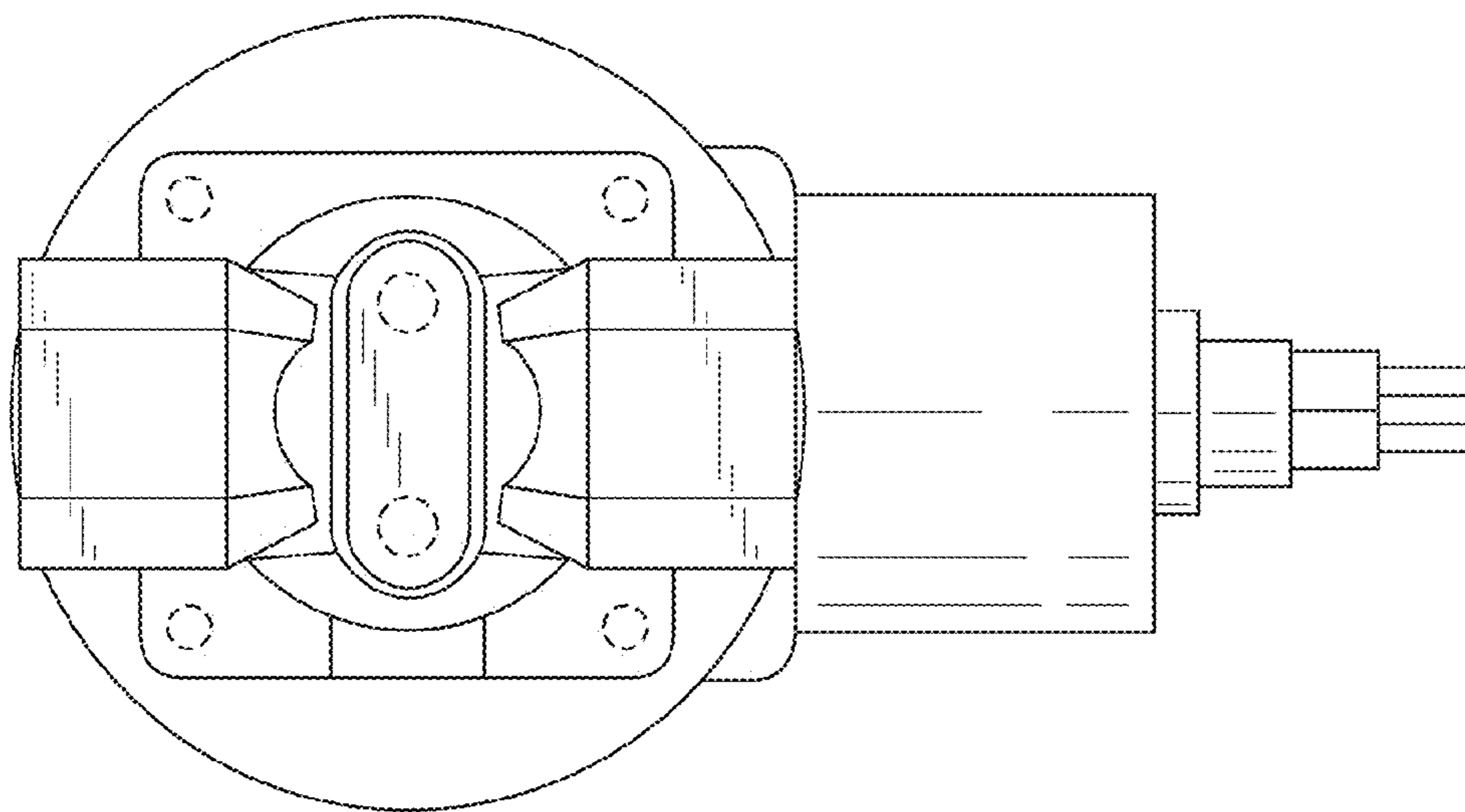


FIG. 7

