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(12) **United States Design Patent** (10) **Patent No.:** **US D987,032 S**
Klimas et al. (45) **Date of Patent:** **** May 23, 2023**

(54) **PILOT-OPERATED SAFETY RELIEF VALVE NOZZLE**

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

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(51) **LOC (14) Cl.** **23-01**

(52) **U.S. Cl.**
USPC **D23/213**

(58) **Field of Classification Search**
USPC D23/213, 214, 215, 223, 224, 226, 229,
D23/230

(Continued)

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Primary Examiner — Keith J Wilson

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(57) **CLAIM**

The ornamental design for a pilot-operated safety relief valve nozzle, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of one embodiment of a pilot-operated safety relief valve nozzle;

FIG. 2 is a front side view of the pilot-operated safety relief valve nozzle of FIG. 1;

FIG. 3 is a back side view of the pilot-operated safety relief valve nozzle of FIG. 1;

FIG. 4 is a top side view of the pilot-operated safety relief valve nozzle of FIG. 1;

FIG. 5 is a bottom side view of the pilot-operated safety relief valve nozzle of FIG. 1;

FIG. 6 is a cross-sectional view of the pilot-operated safety relief valve nozzle of FIG. 1, taken about line 8-8 as shown in FIG. 5;

FIG. 7 is a perspective exploded view of the pilot-operated safety relief valve nozzle of FIG. 1;

FIG. 8 is a perspective view of one embodiment of a system including the pilot-operated pressure relief valve nozzle of FIG. 1 and a sensing line inserted into the pilot-operated pressure relief valve nozzle;

FIG. 9 is a perspective view of another embodiment of a pilot-operated safety relief valve nozzle;

FIG. 10 is a front side view of the pilot-operated safety relief valve nozzle of FIG. 9;

FIG. 11 is a back side view of the pilot-operated safety relief valve nozzle of FIG. 9;

FIG. 12 is a right side view of the pilot-operated safety relief valve nozzle of FIG. 9;

FIG. 13 is a top side view of the pilot-operated safety relief valve nozzle of FIG. 9;

FIG. 14 is a bottom side view of the pilot-operated safety relief valve nozzle of FIG. 9;

FIG. 15 is a cross-sectional view of the pilot-operated pressure relief valve nozzle of FIG. 9, taken about line 19-19 as shown in FIG. 9;

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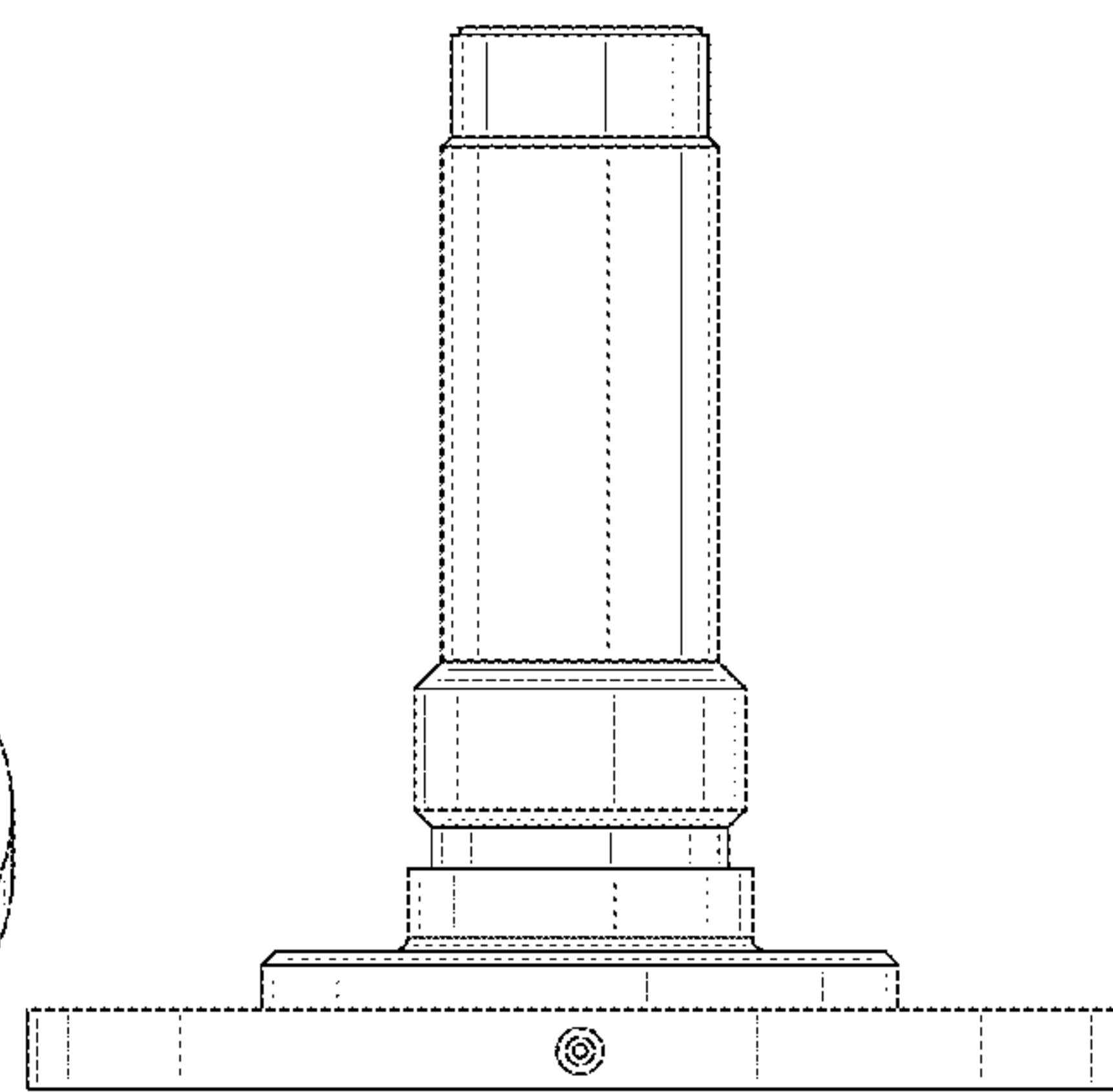
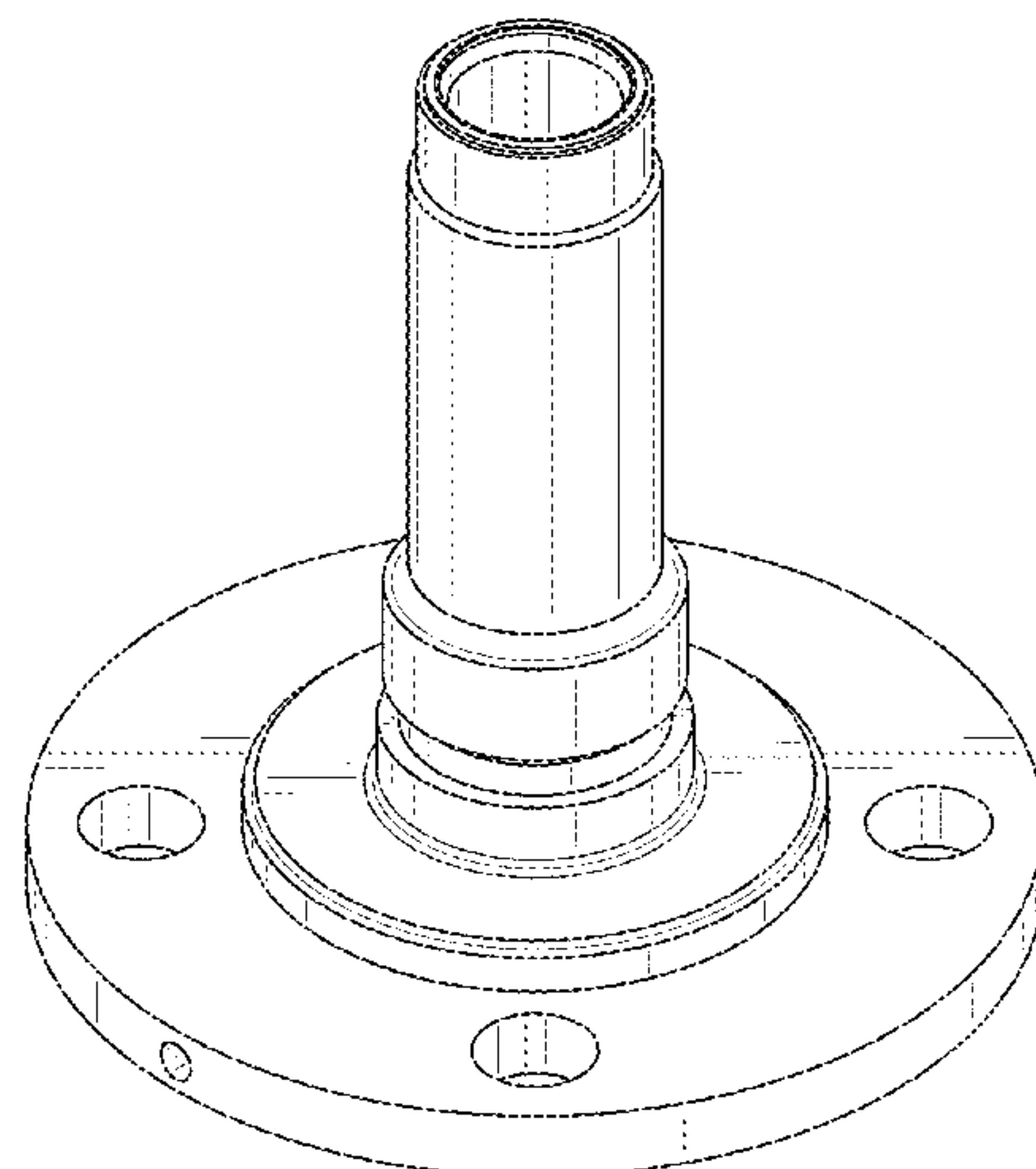


FIG. 16 is a magnified perspective view of the inlet of the pilot-operated pressure relief valve nozzle shown at location 16 of FIG. 9; and,

FIG. 17 is a cross-sectional view of the pilot-operated pressure relief valve nozzle of FIG. 9, taken about line 21-21 as shown in FIG. 14.

The left and right side views of the pilot-operated safety relief valve nozzle of FIG. 1 are not shown, as they are identical to the back side view shown in FIG. 3.

The left side view of the pilot-operated safety relief valve nozzle of FIG. 9 is not shown, as it is identical to the back side view shown in FIG. 11.

The broken line shown in all of the drawing figures are for illustrative purposes only and form no part of the claimed design.

1 Claim, 17 Drawing Sheets

(58) Field of Classification Search

CPC A61H 9/0021; A61H 33/00; B05B 1/00;
B05B 1/14; B05B 1/185; B05B 1/08;
B05B 1/02; B05B 1/26; B05B 12/002;
B05B 1/18; B05B 9/01

See application file for complete search history.

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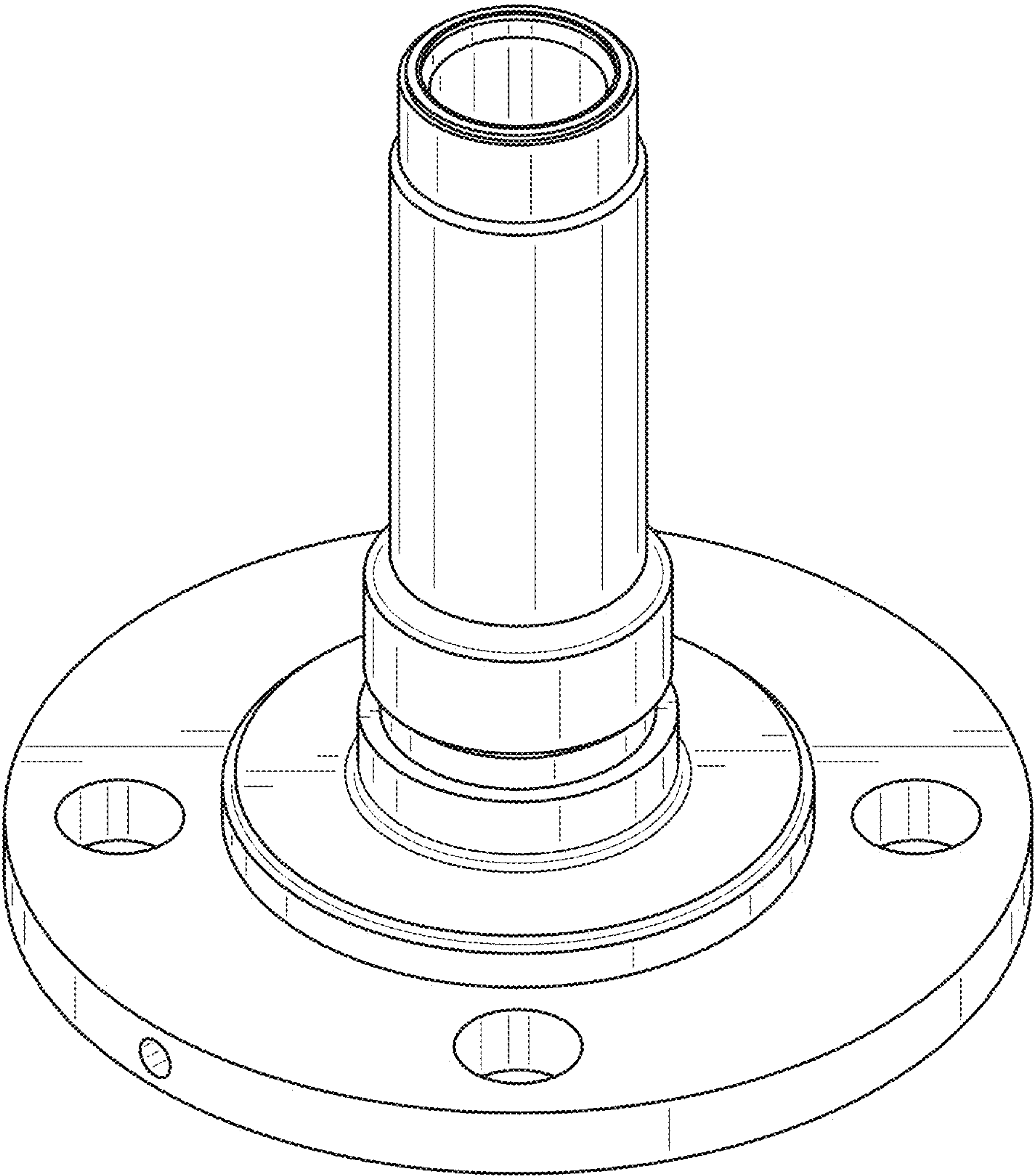


FIG. 1

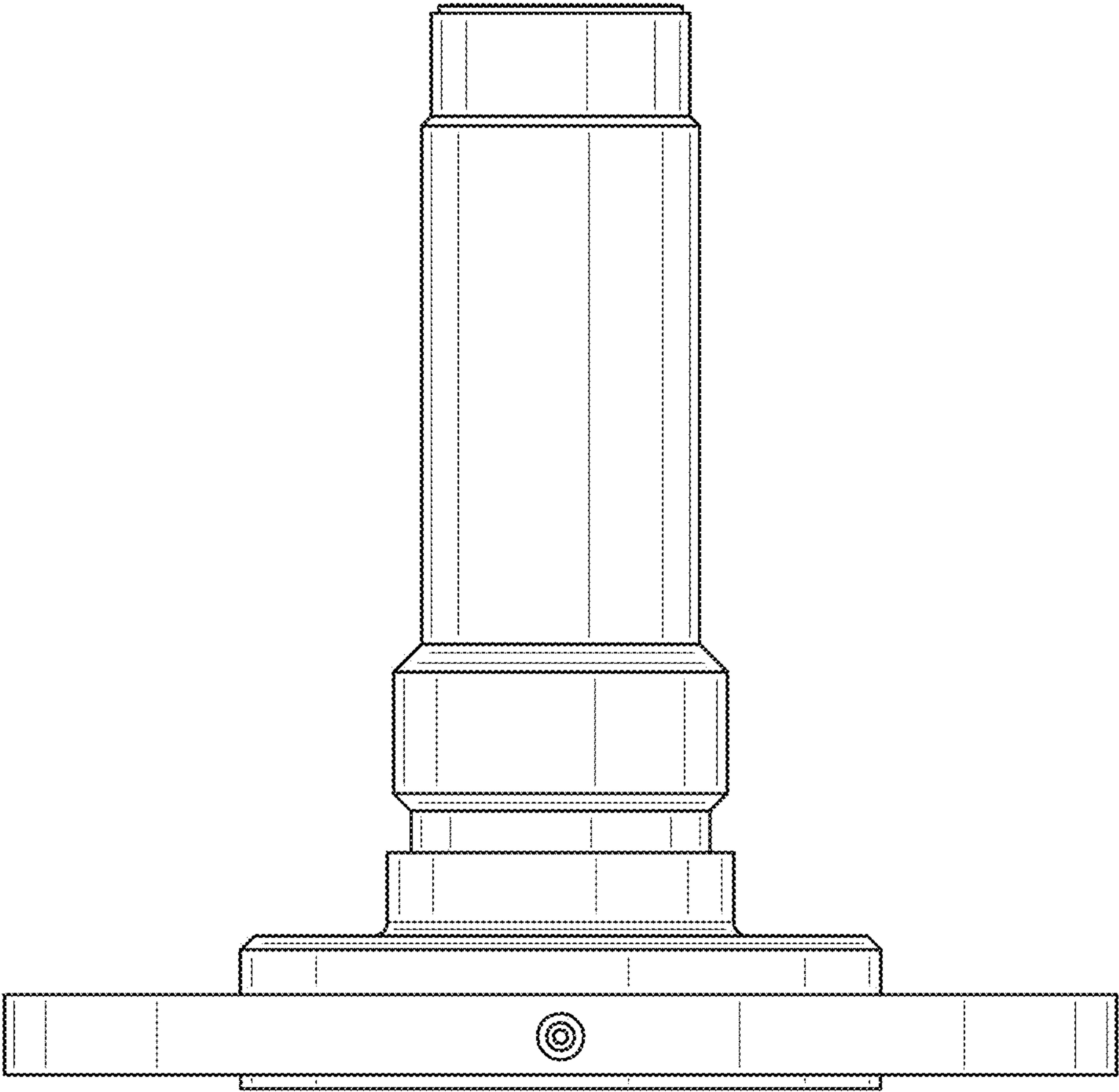


FIG. 2

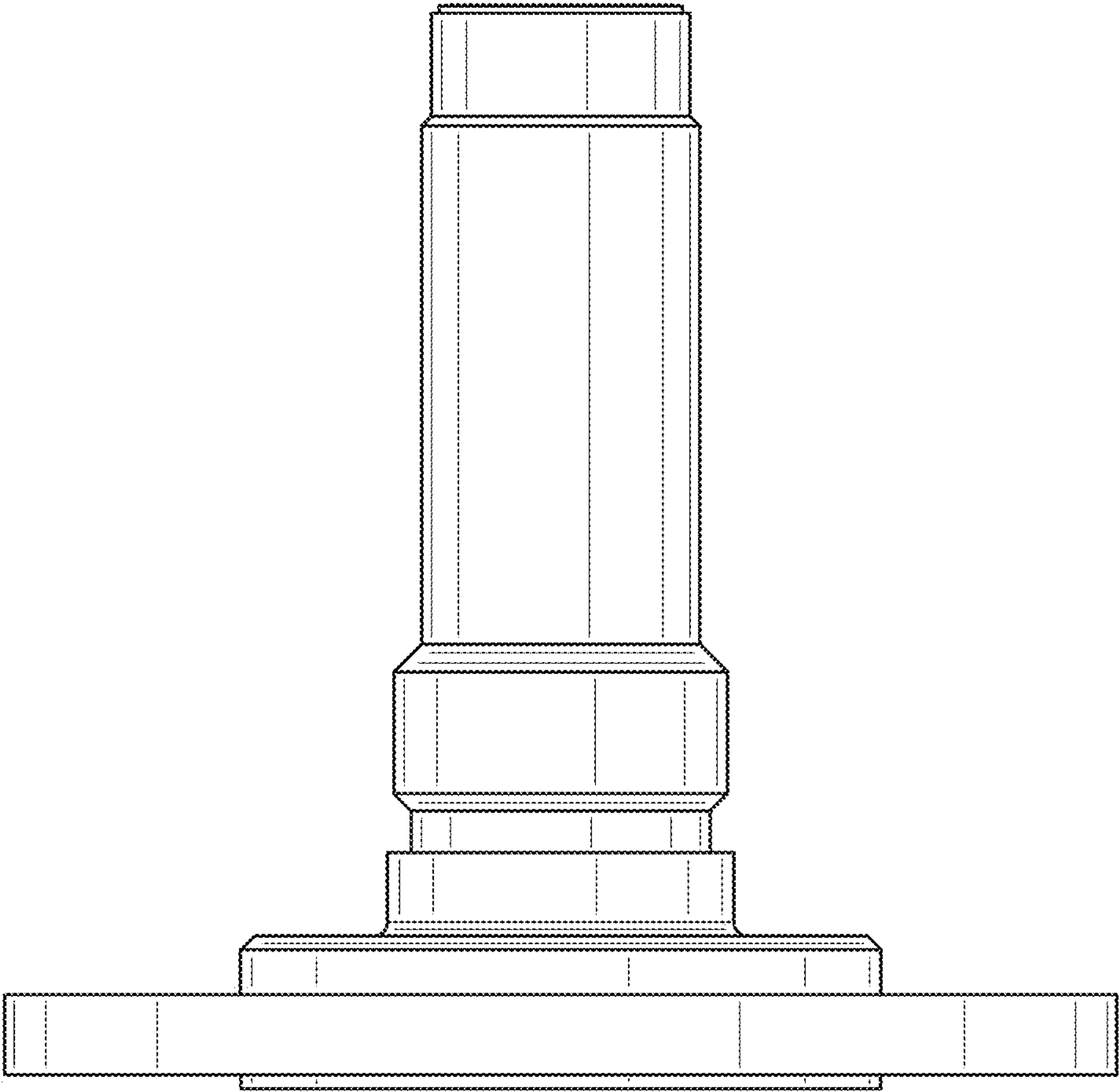


FIG. 3

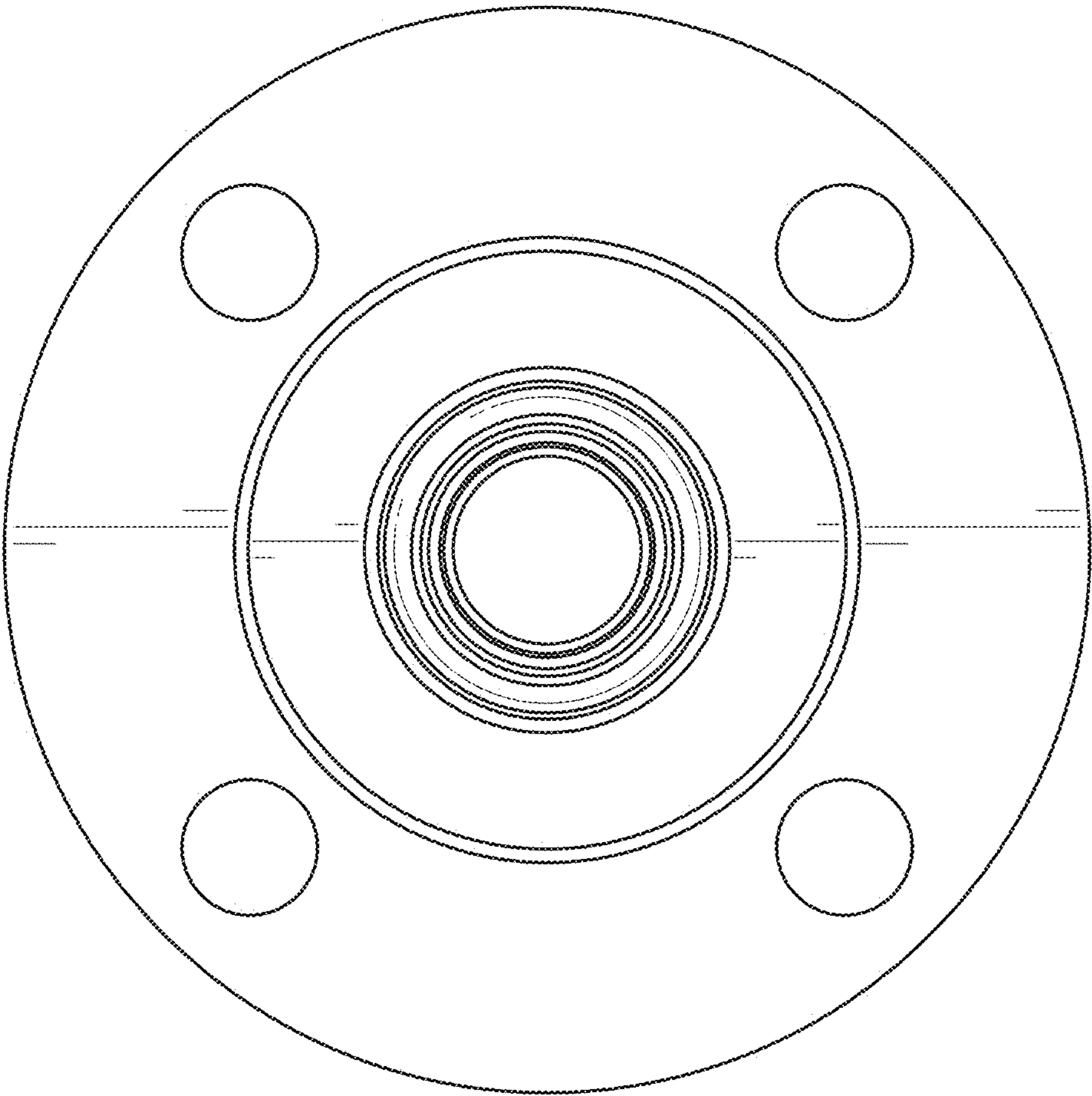


FIG. 4

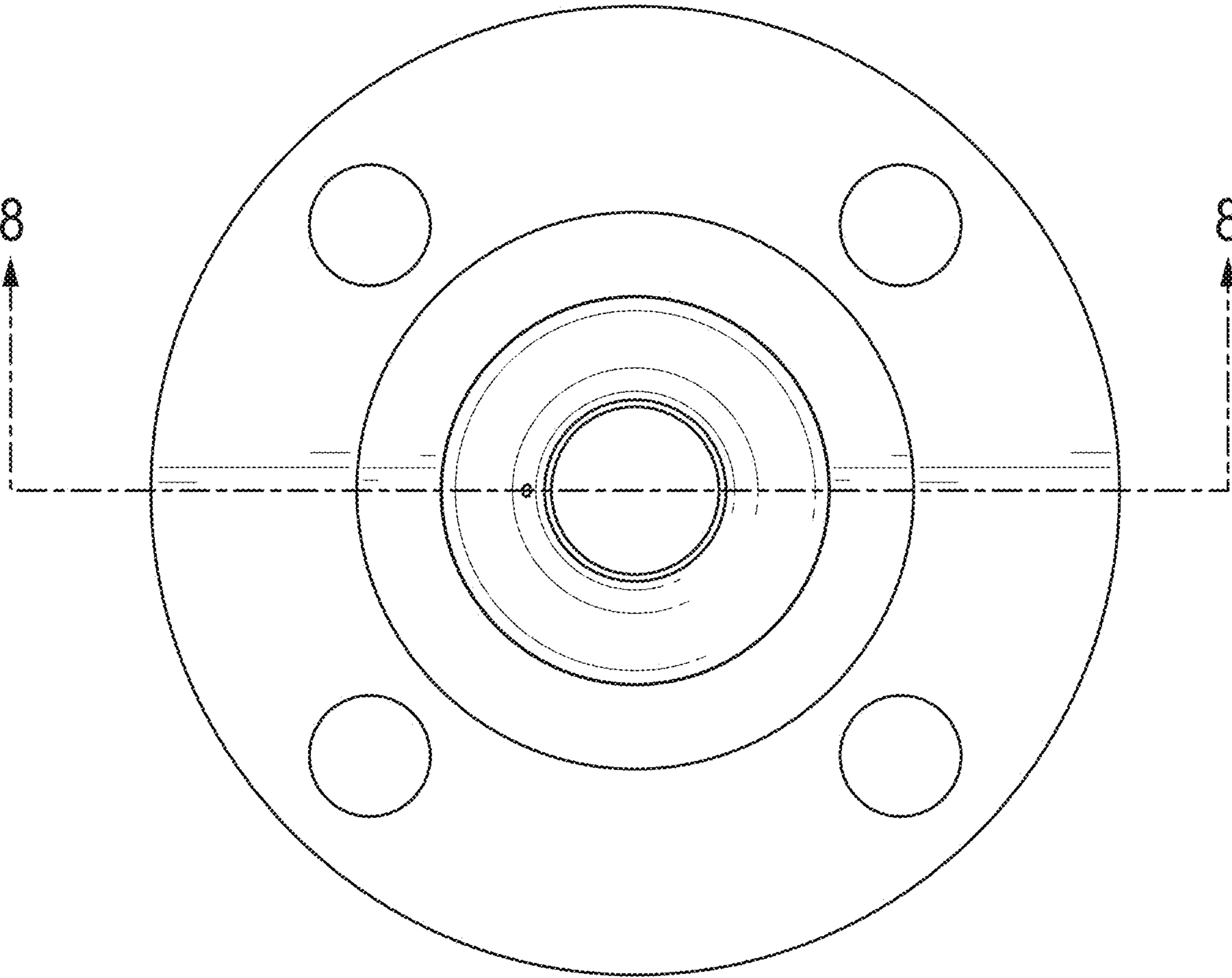


FIG. 5

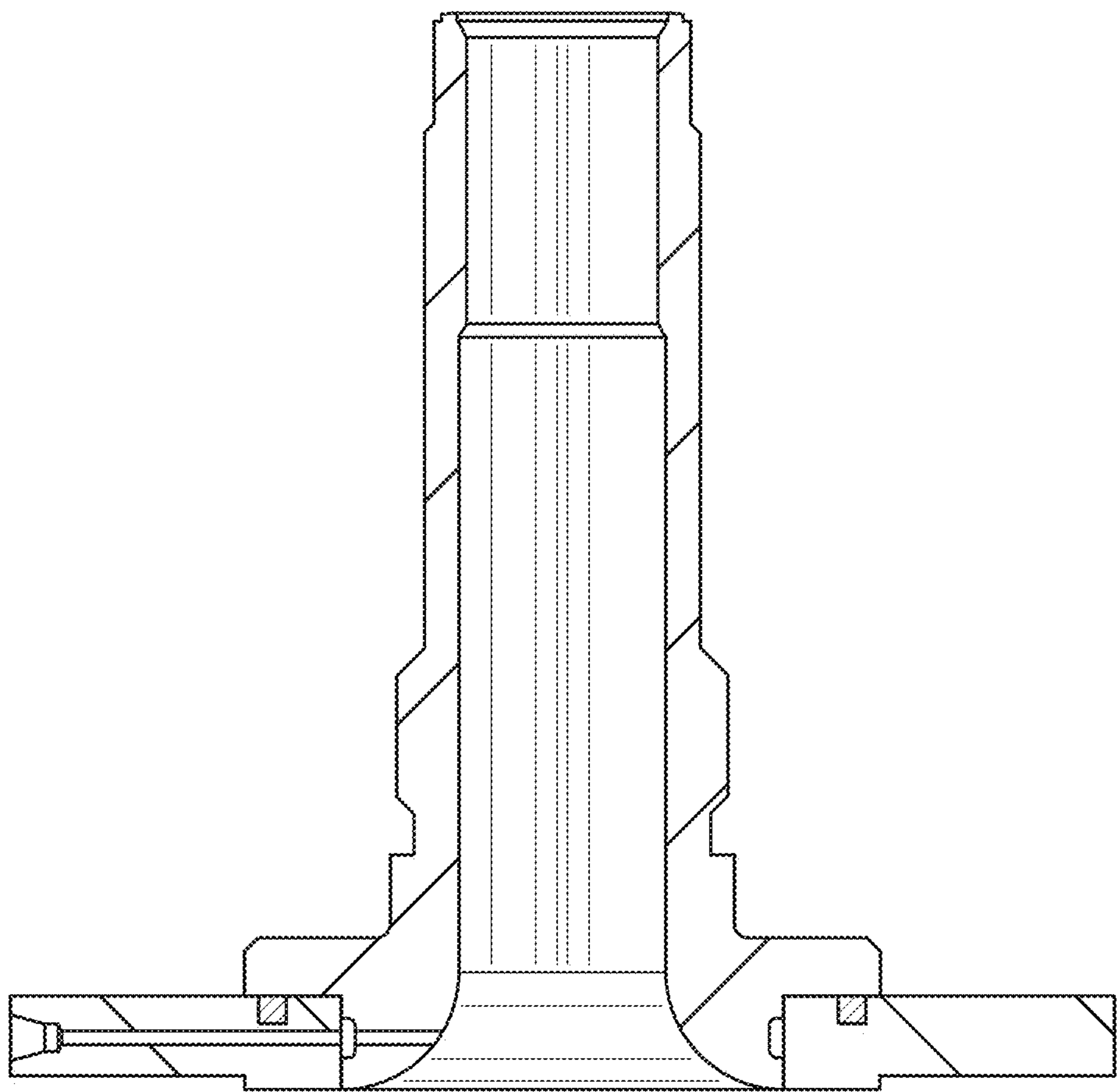


FIG. 6

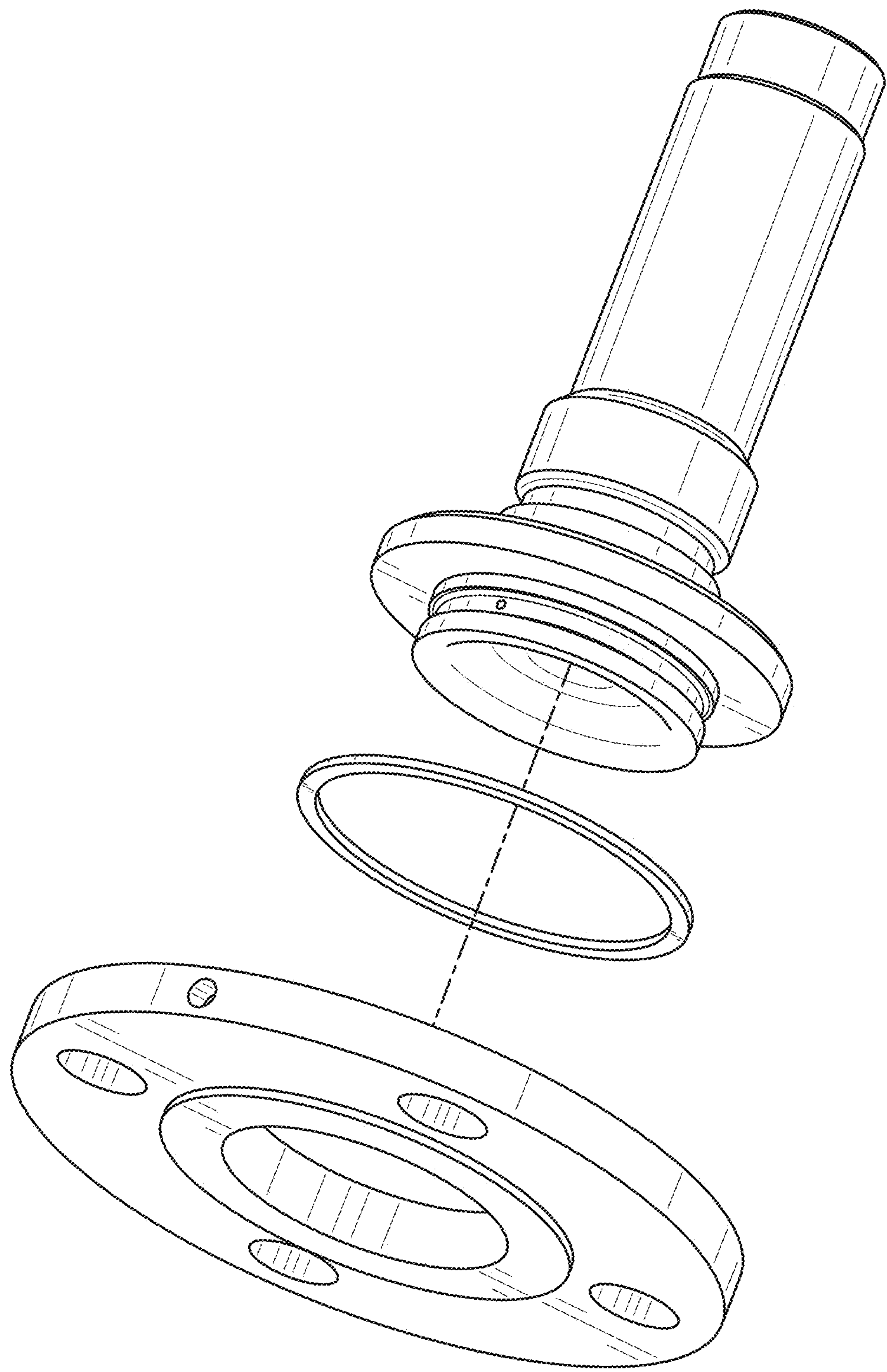


FIG. 7

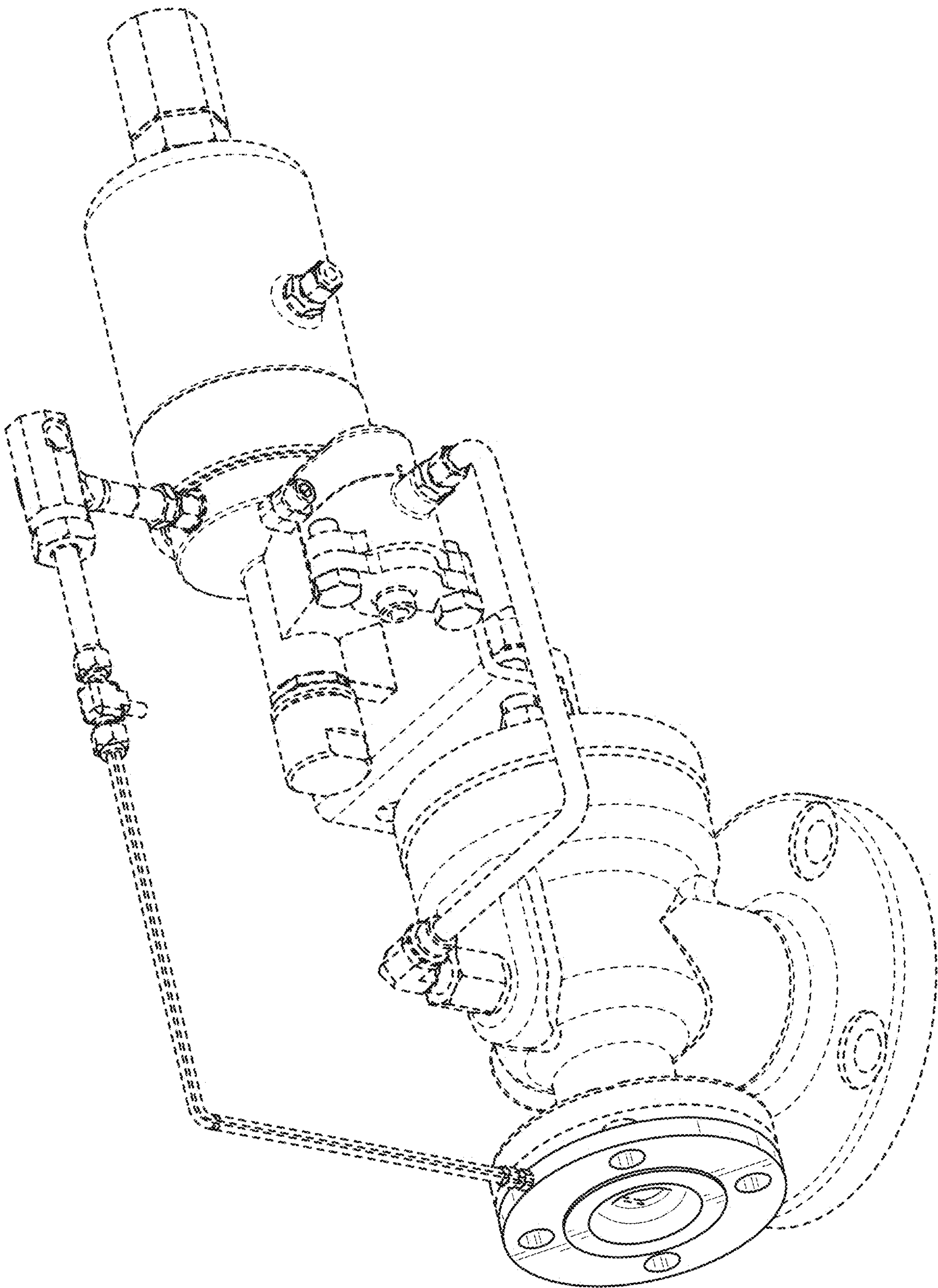


FIG. 8

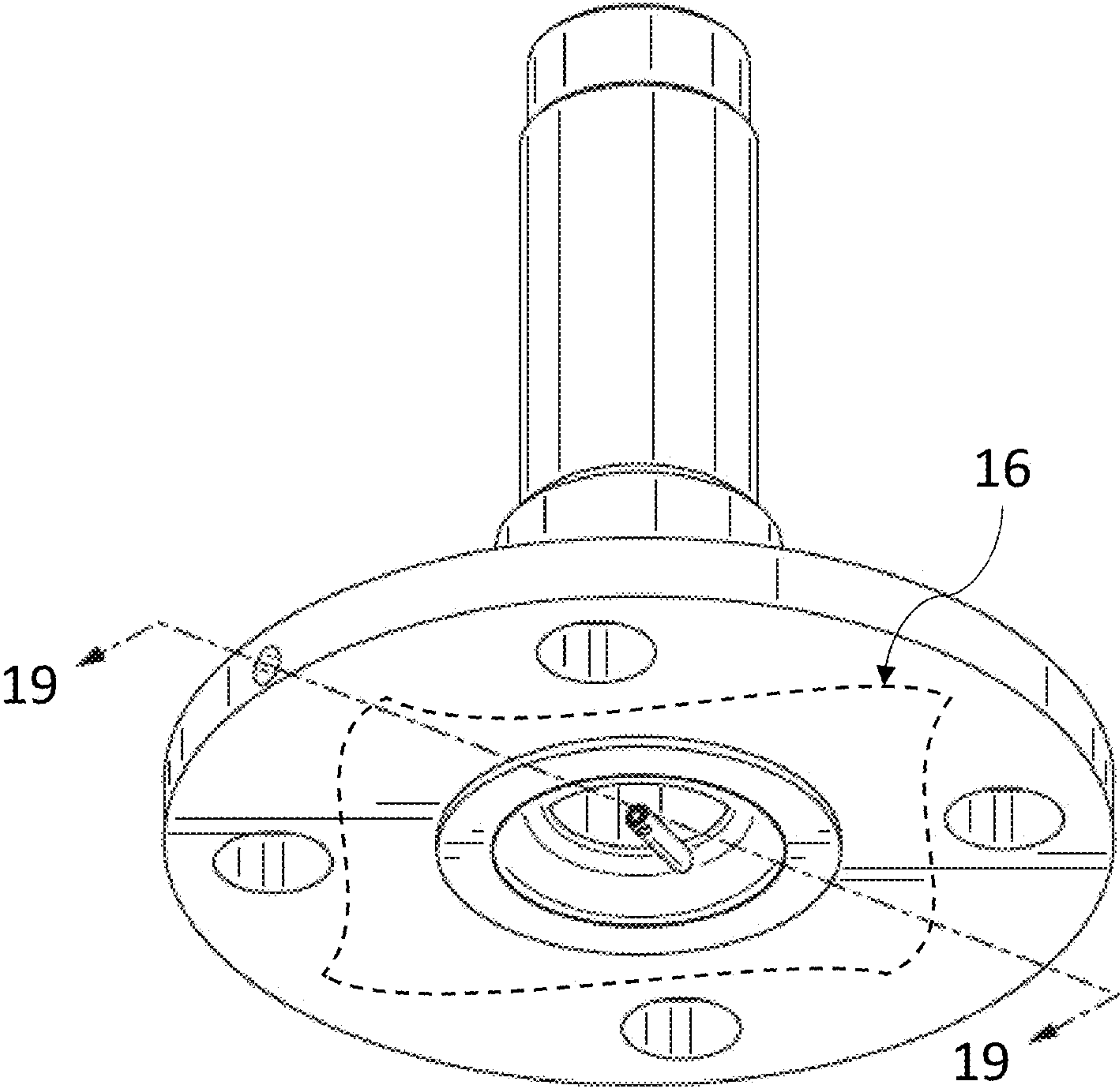


FIG. 9

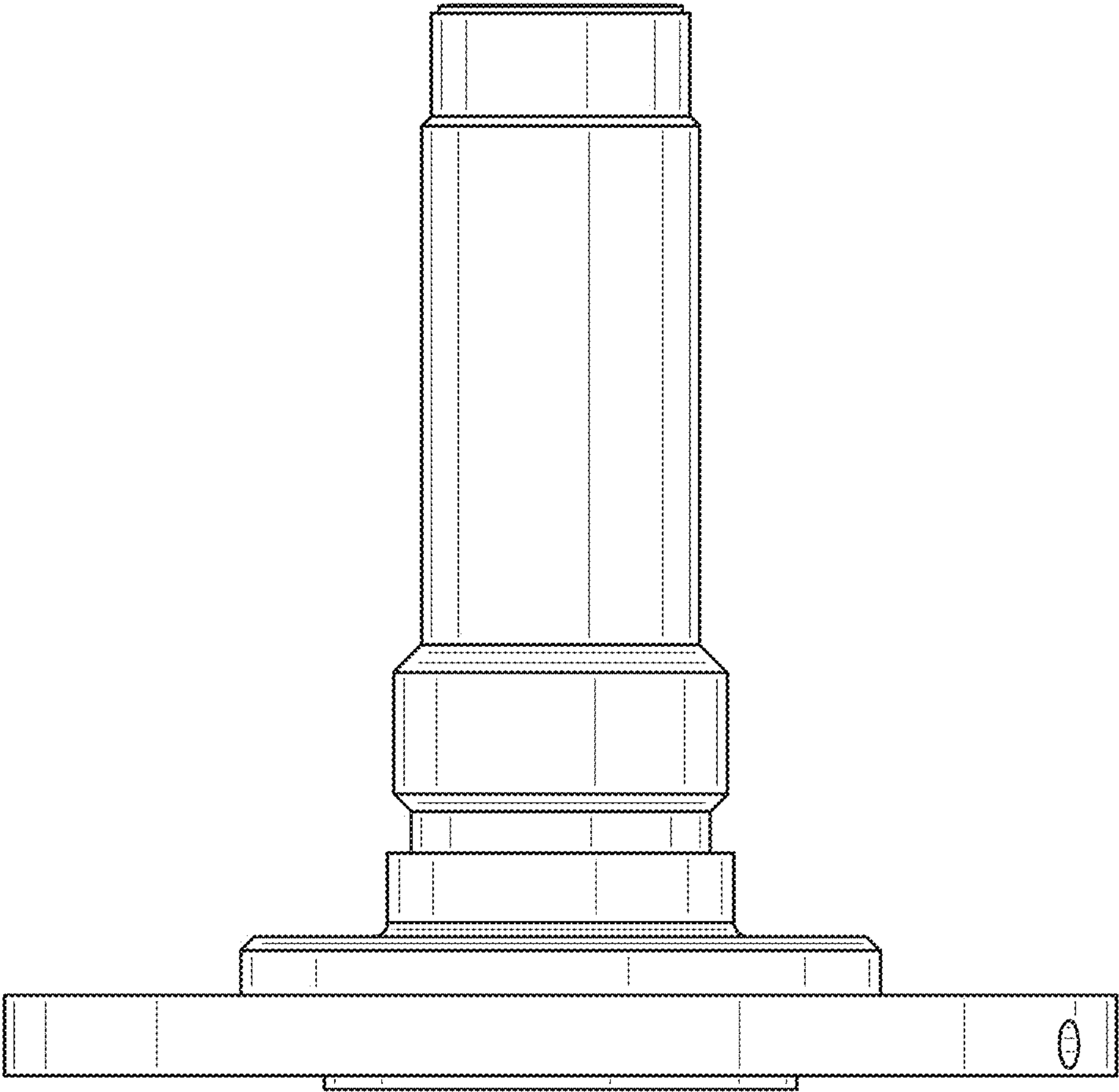


FIG. 10

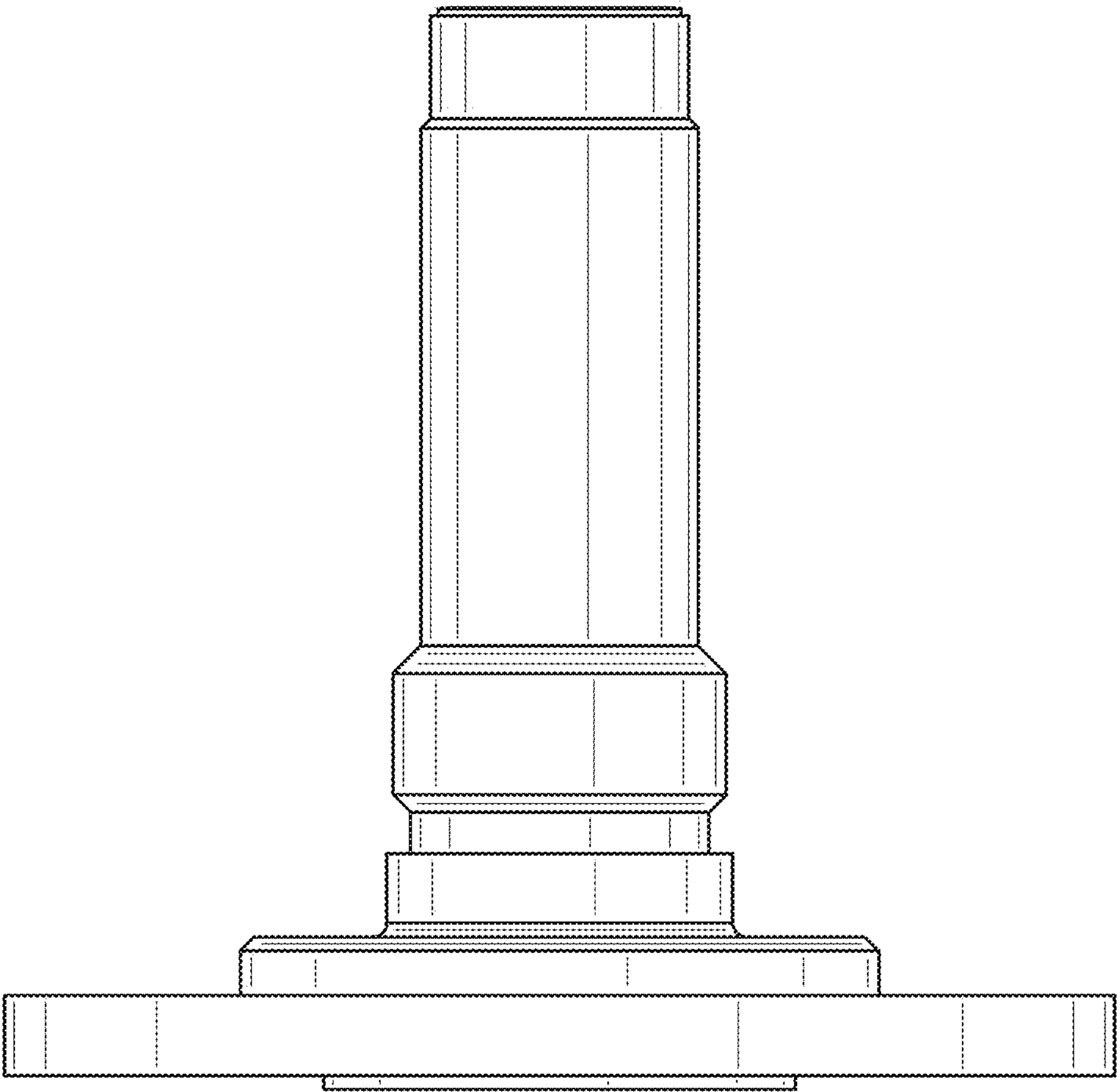


FIG. 11

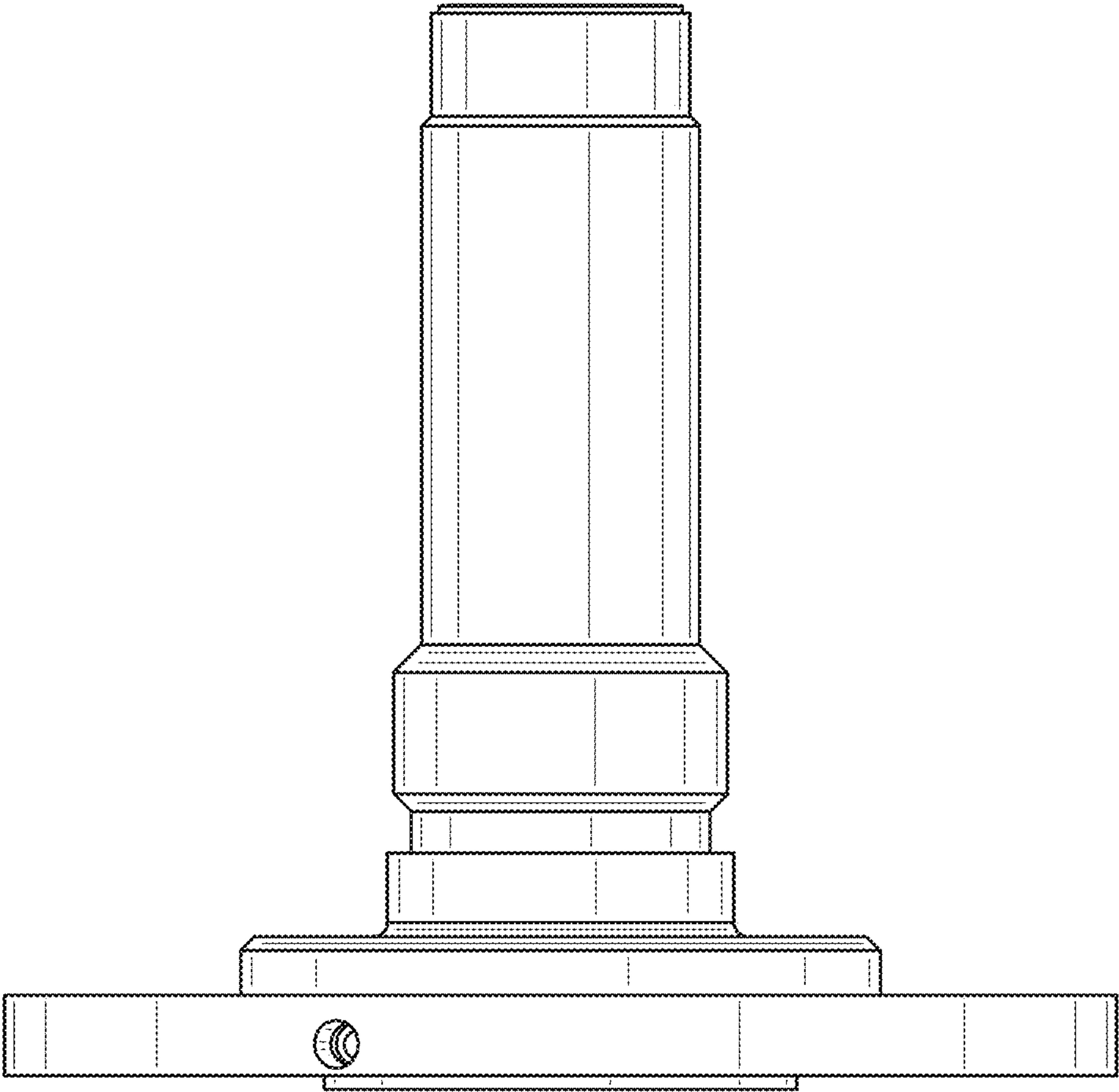


FIG. 12

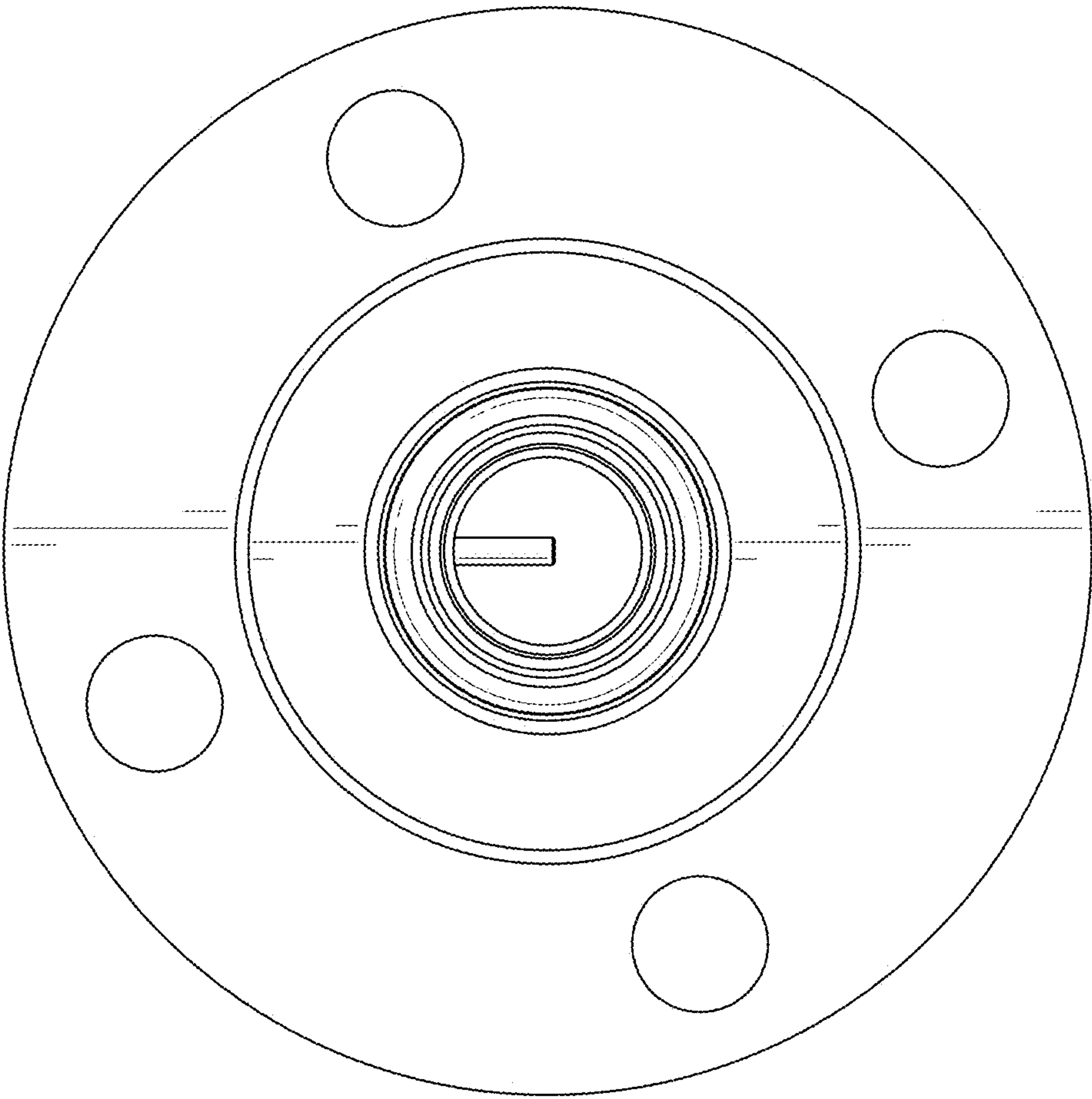


FIG. 13

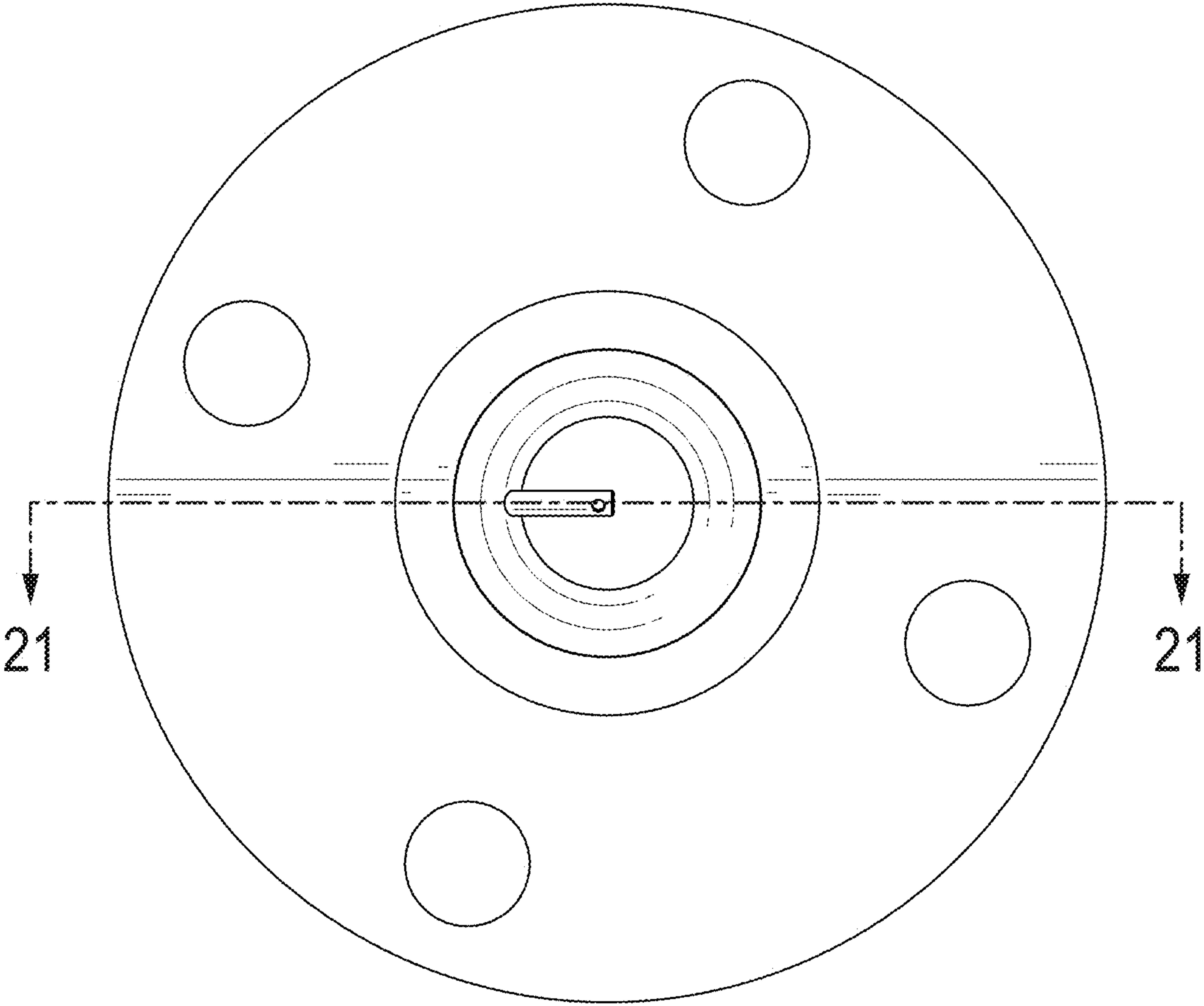


FIG. 14

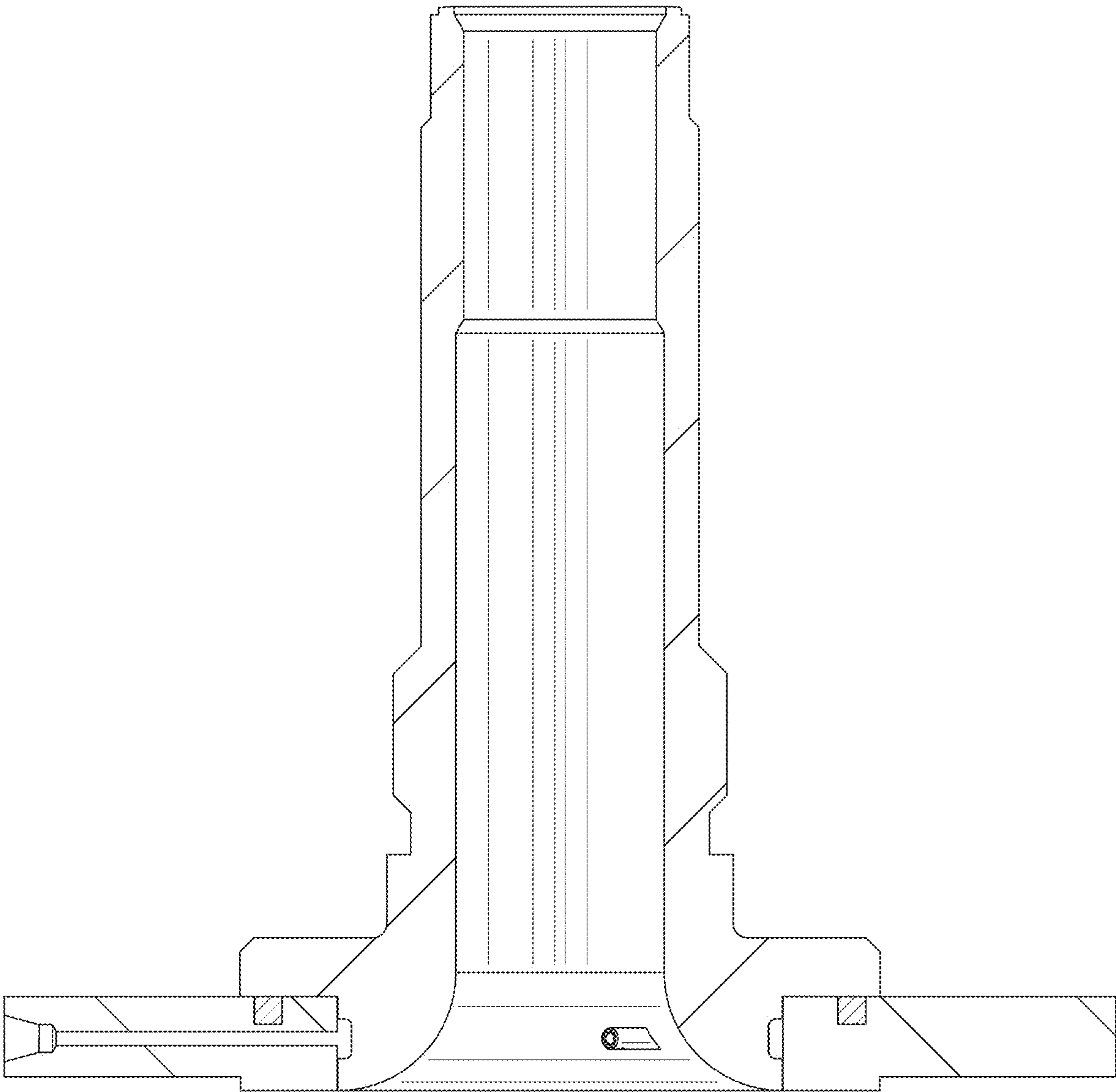


FIG. 15

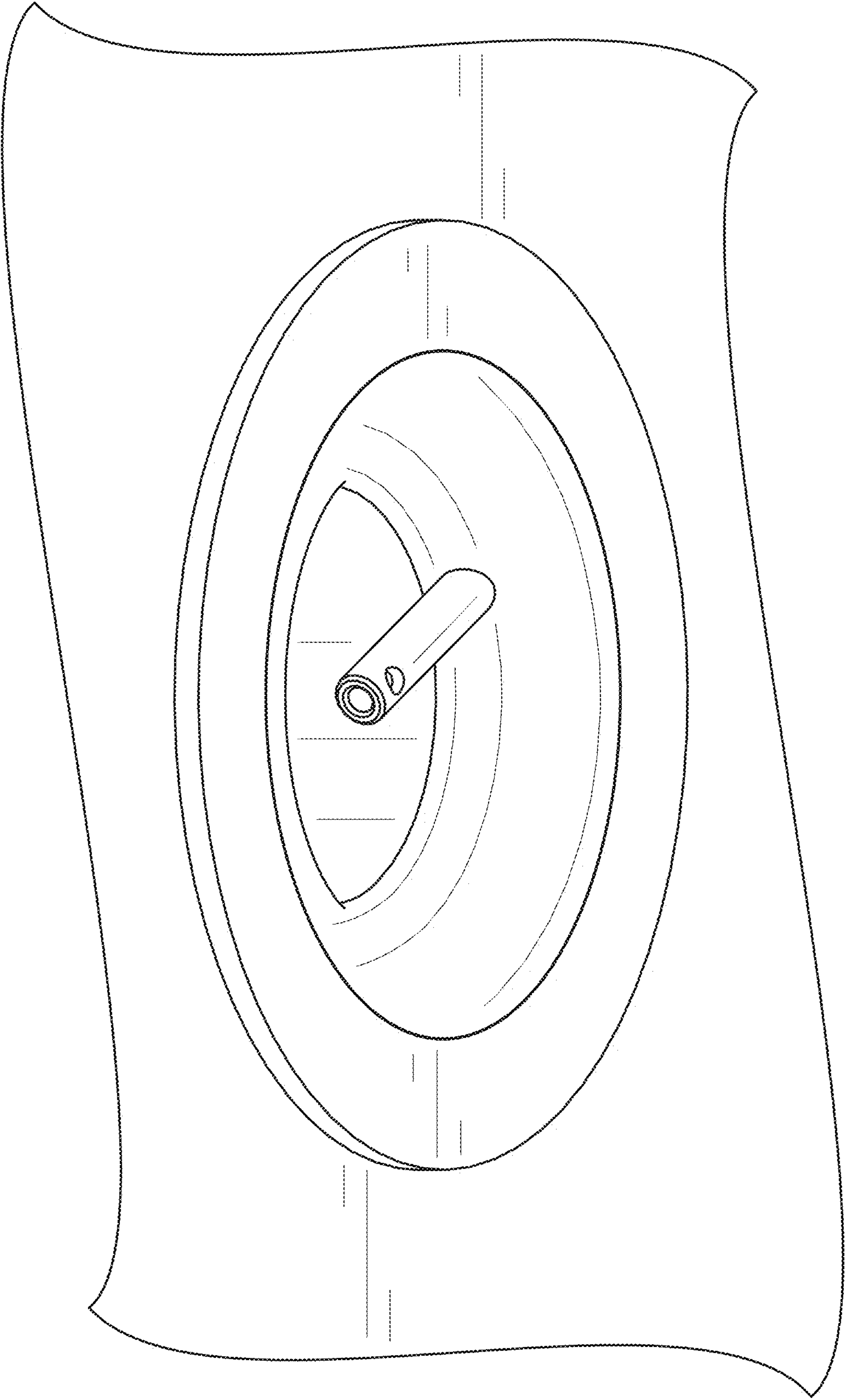


FIG. 16

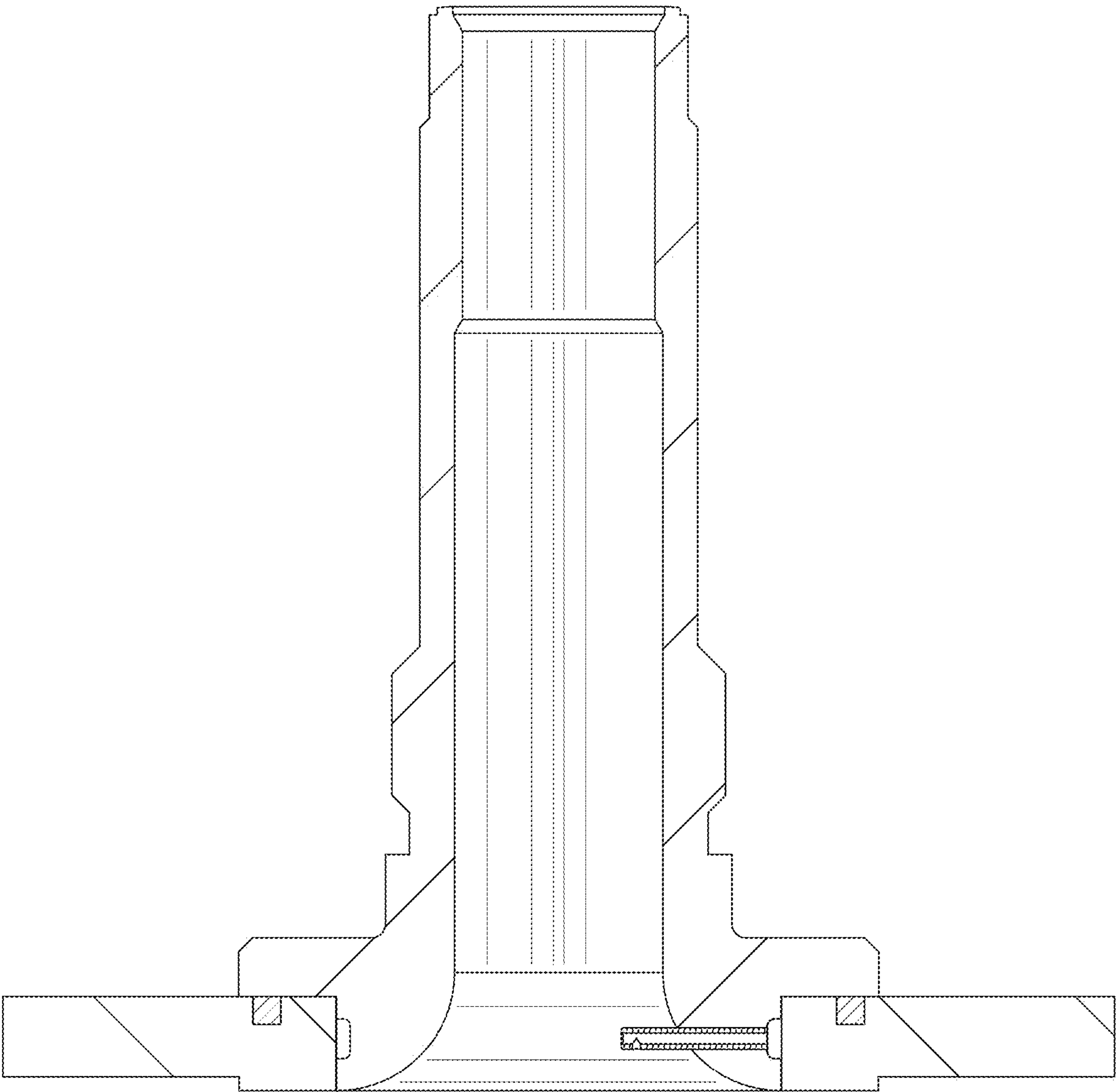


FIG. 17