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

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(45) **Date of Patent:** **** Apr. 13, 2010**

(54) **PUMP IMPELLER**

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(73) Assignee: **ShinMaywa Industries, Ltd.**, Hyogo (JP)

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

(21) Appl. No.: **29/336,812**

(22) Filed: **May 8, 2009**

(51) **LOC (9) Cl.** **15-02**

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

(58) **Field of Classification Search** D15/7-9;
D23/225, 231-232; 417/410.1, 234, 321,
417/359, 265, 405

See application file for complete search history.

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(57) **CLAIM**

The ornamental design for a pump impeller, as shown and described.

DESCRIPTION

FIG. 1 is the impeller viewed obliquely from above.

FIG. 2 is the impeller viewed obliquely from below.

FIG. 3 is the impeller viewed from front.

FIG. 4 is the impeller viewed from back.

FIG. 5 is the impeller viewed from left.

FIG. 6 is the impeller viewed from right.

FIG. 7 is the impeller viewed from above.

FIG. 8 is the impeller viewed from below.

FIG. 9 is a cross section taken along the line IX—IX of FIG. 7.

FIG. 10 is a cross section taken along the line X—X of FIG. 7.

FIG. 11 is a cross section taken along the line XI—XI of FIG. 7; and,

FIG. 12 is a cross section taken along the line XII—XII of FIG. 7.

The impeller is provided in a pump, and draws in liquid through an inlet in the bottom shown in FIG. 2. The liquid passes through the flow path formed inside the impeller shown in the cross sections of FIGS. 9–12 and is then discharged laterally.

1 Claim, 6 Drawing Sheets

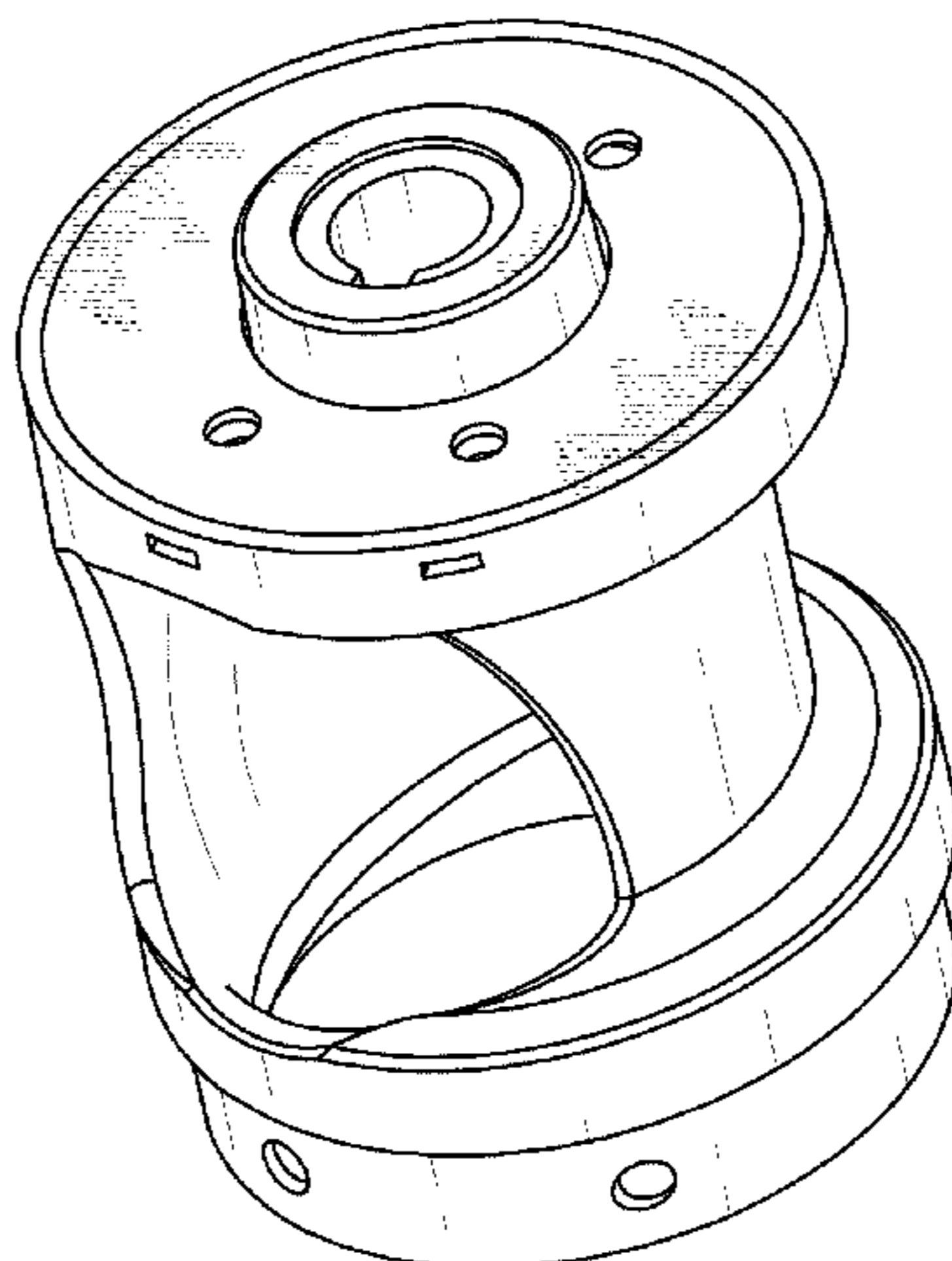


FIG. 1

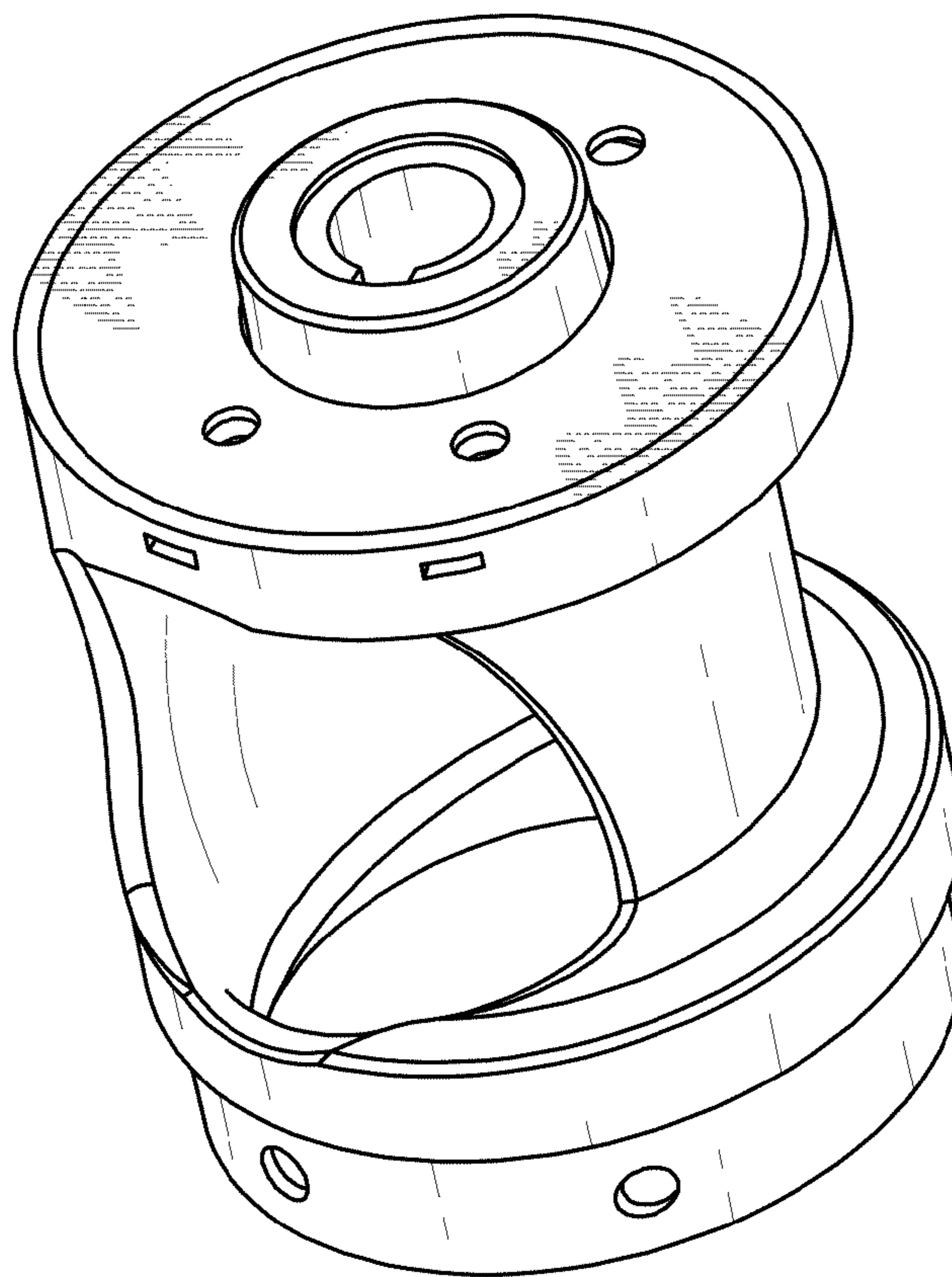


FIG. 2

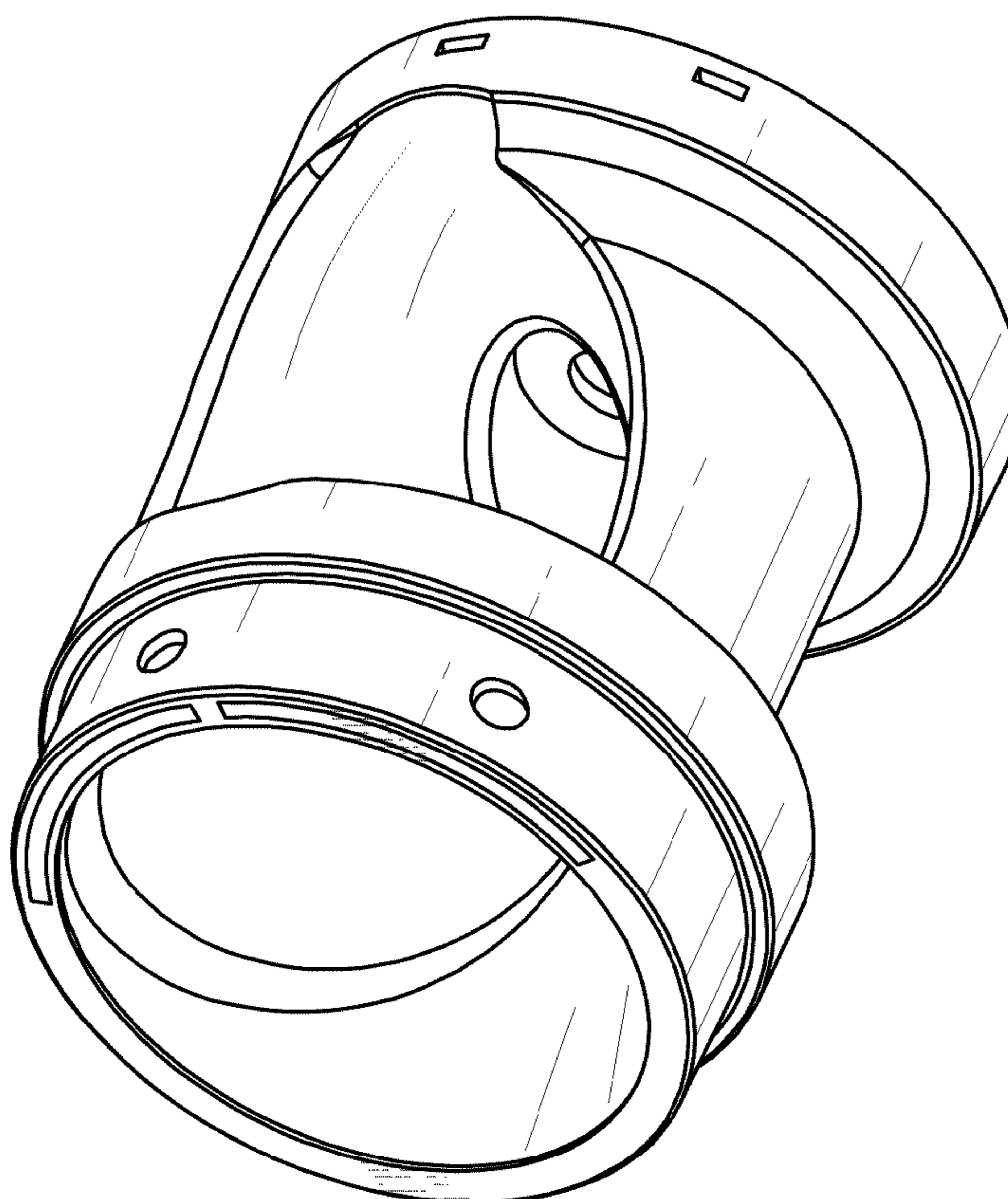


FIG. 3

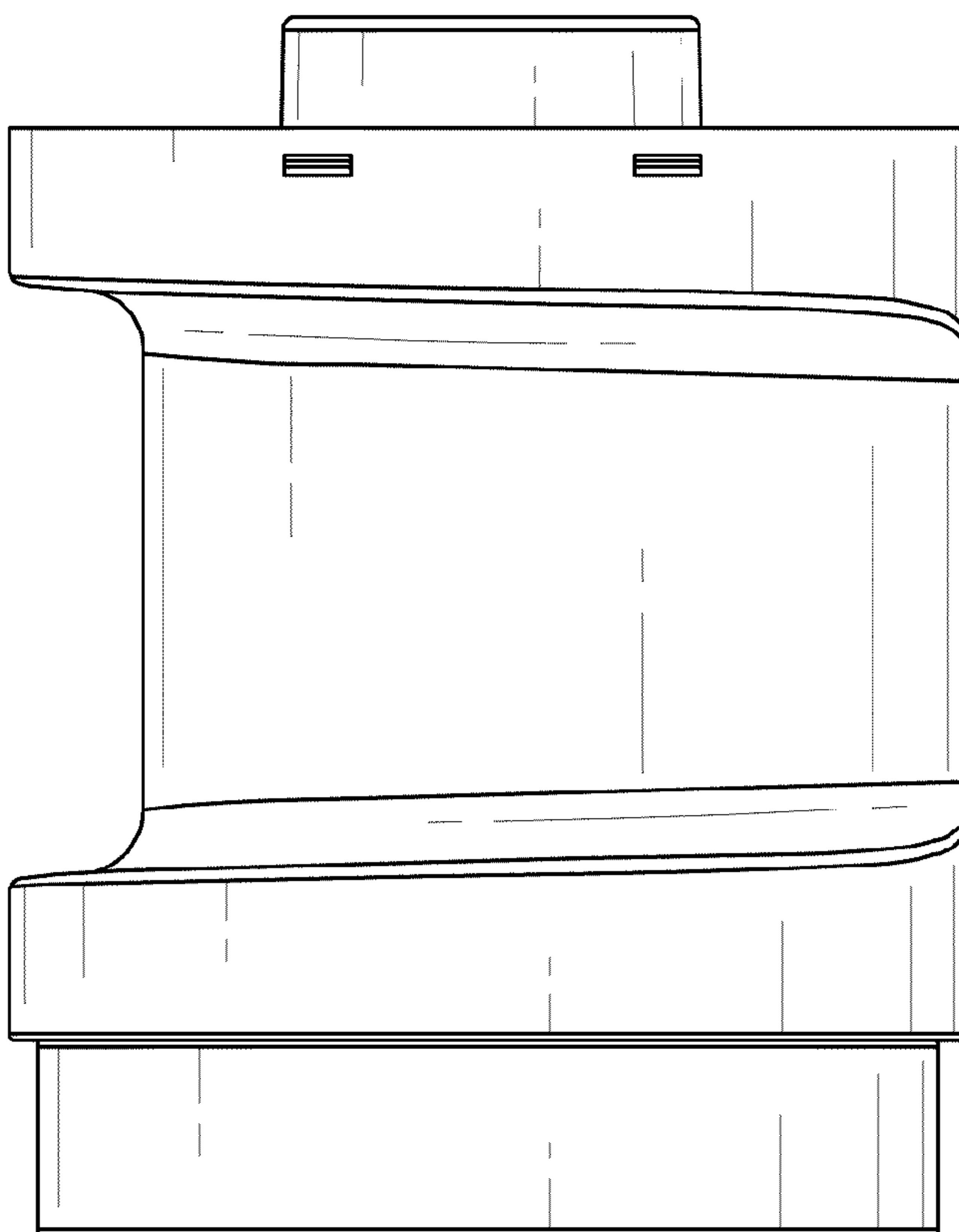


FIG. 4

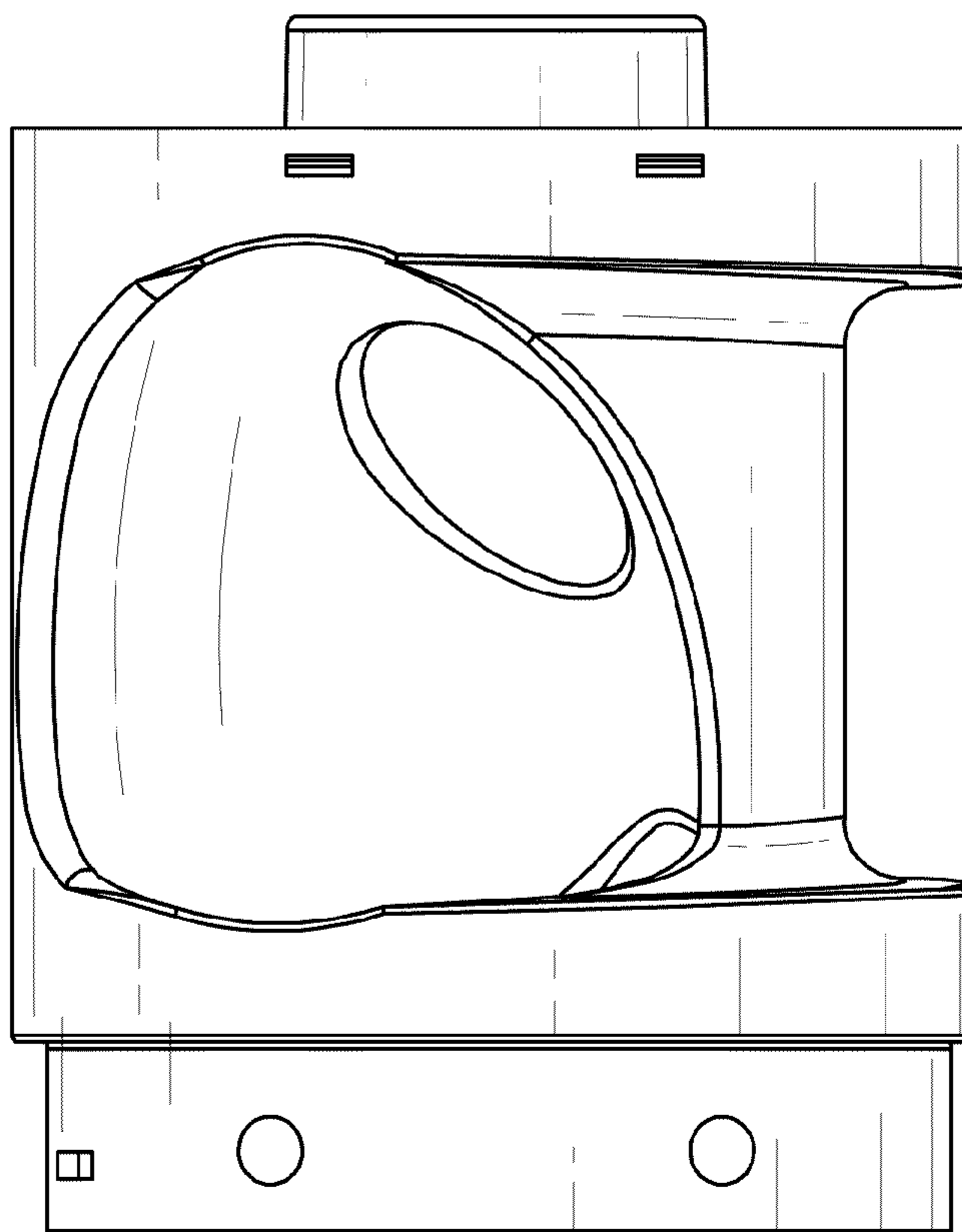


FIG. 5

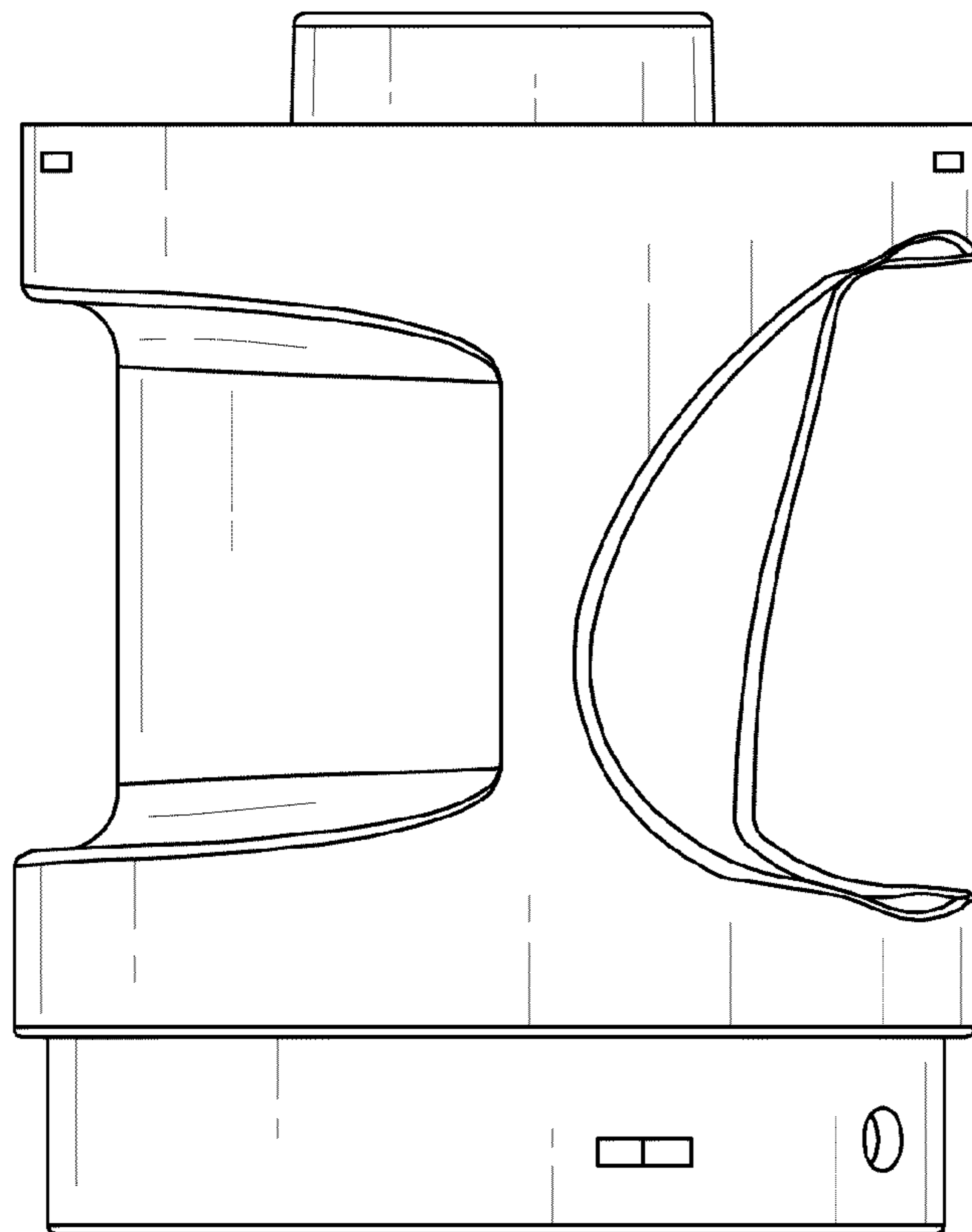


FIG. 6

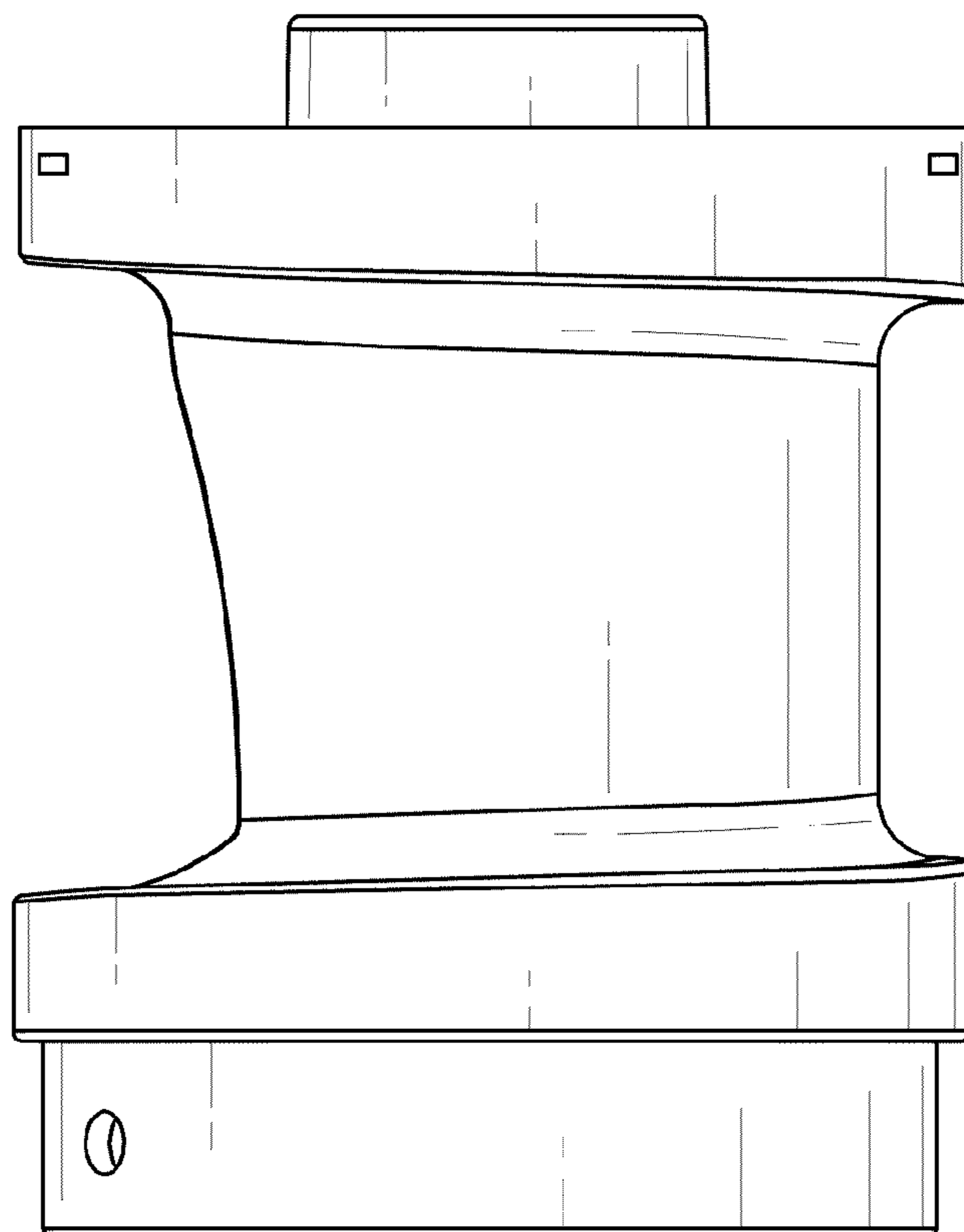


FIG. 7

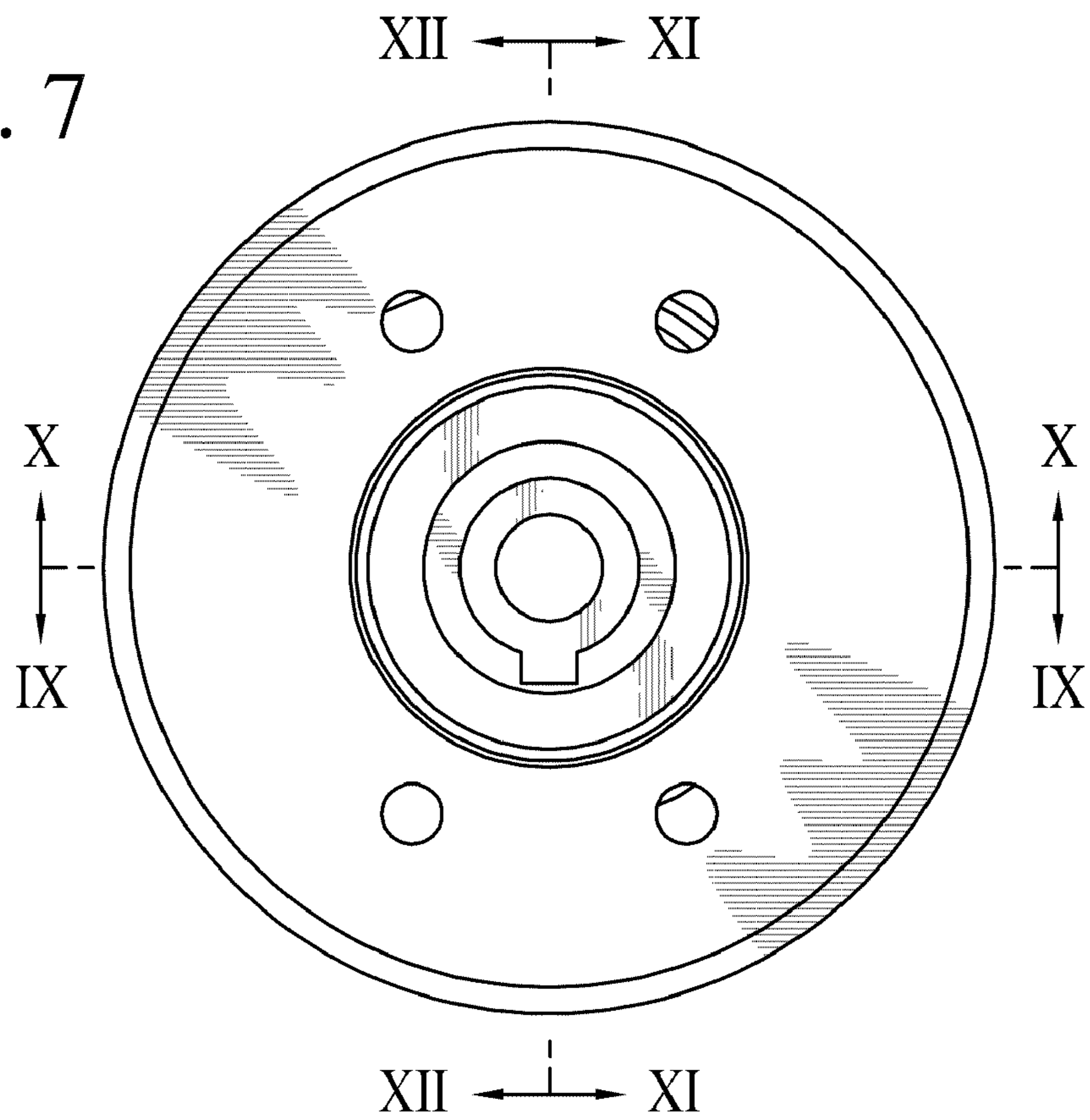


FIG. 8

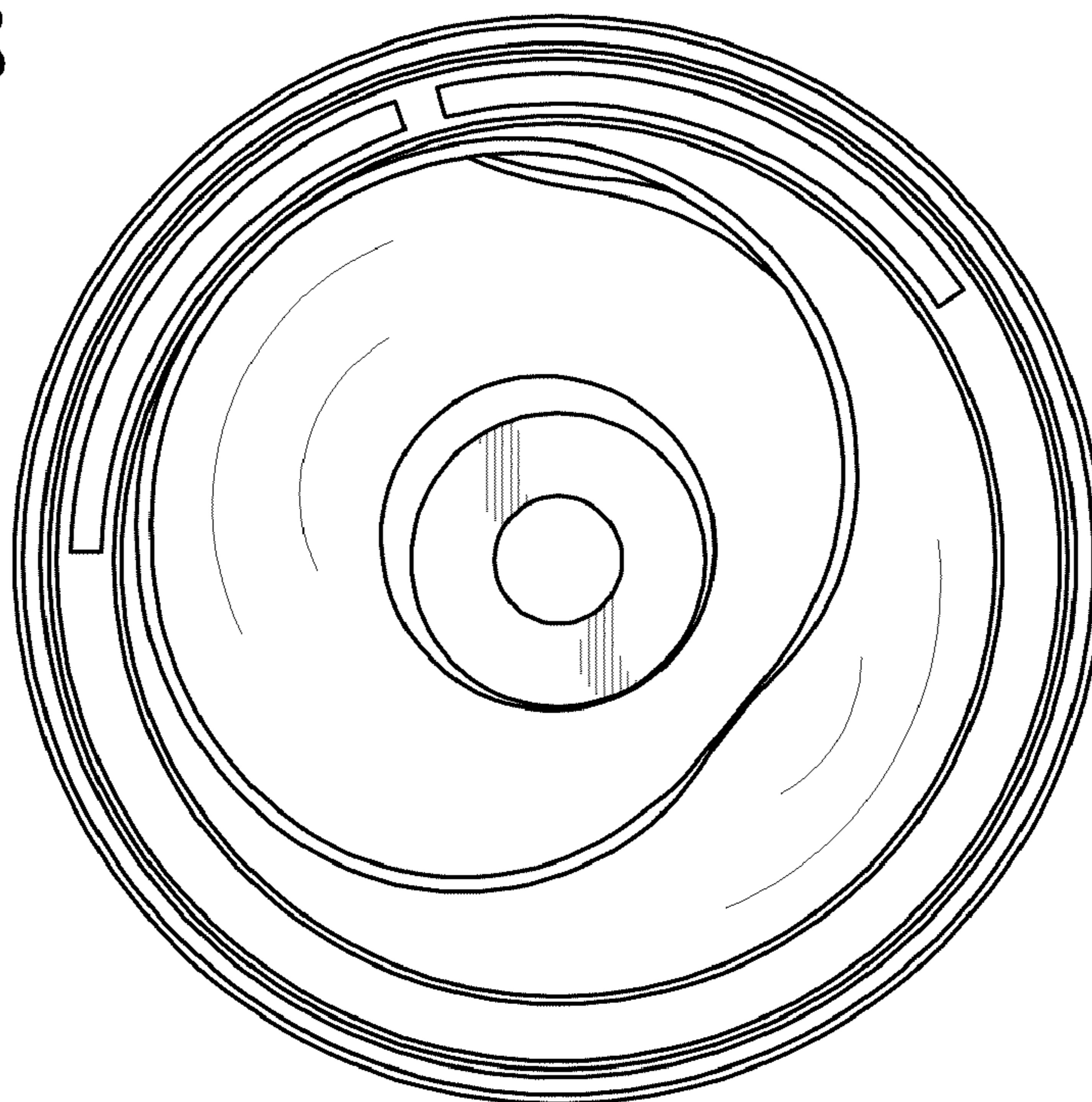


FIG. 9

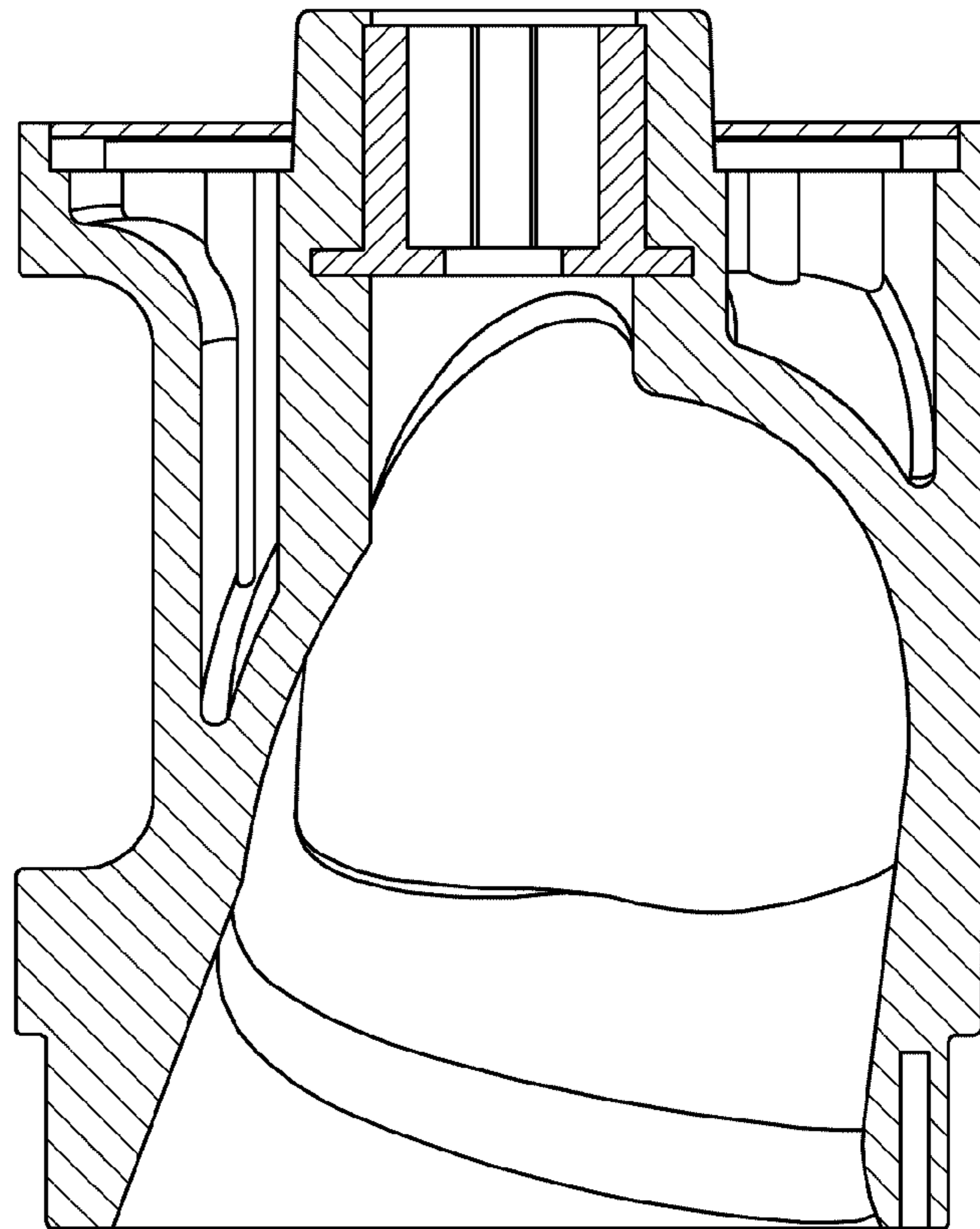


FIG. 10

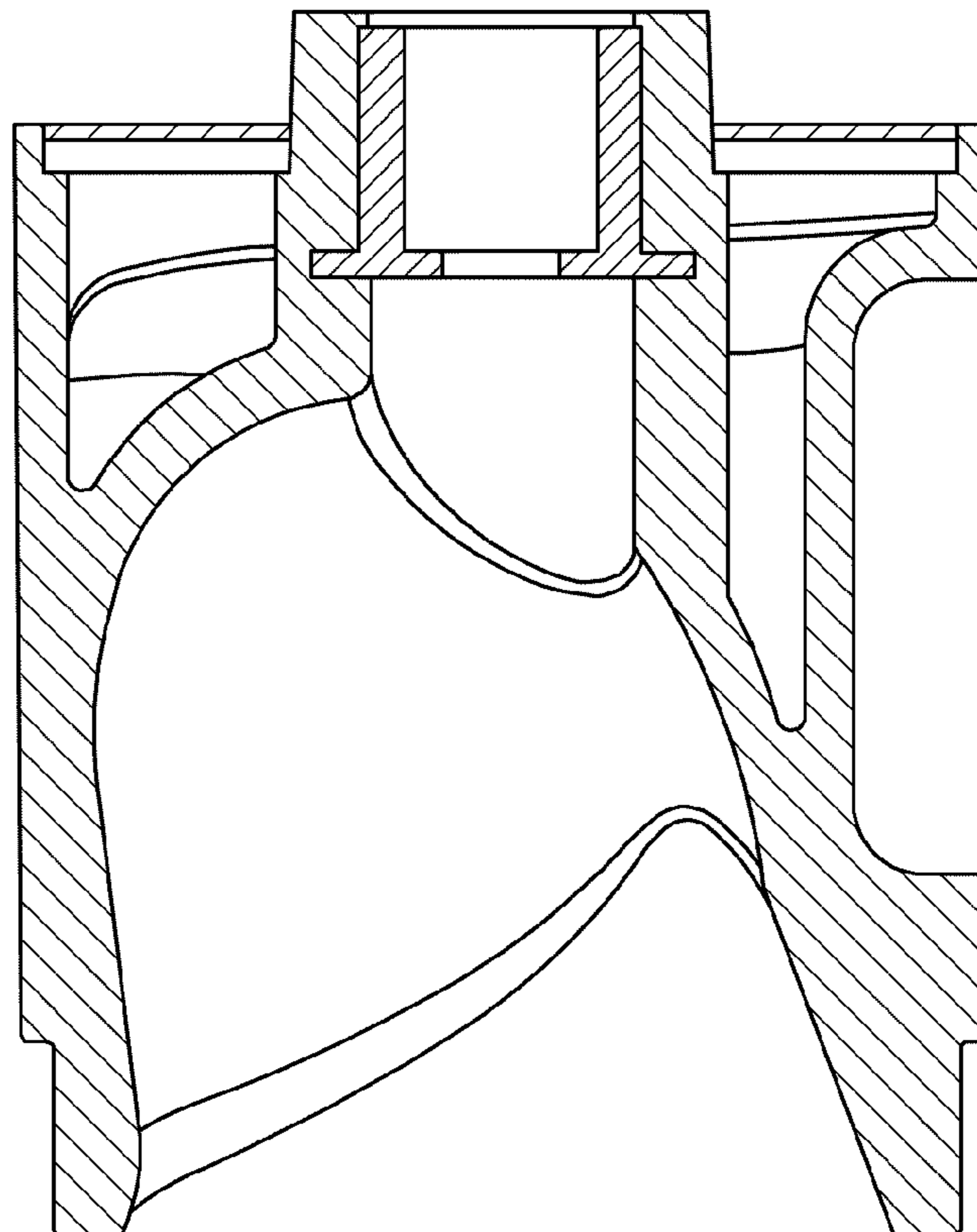


FIG. 11

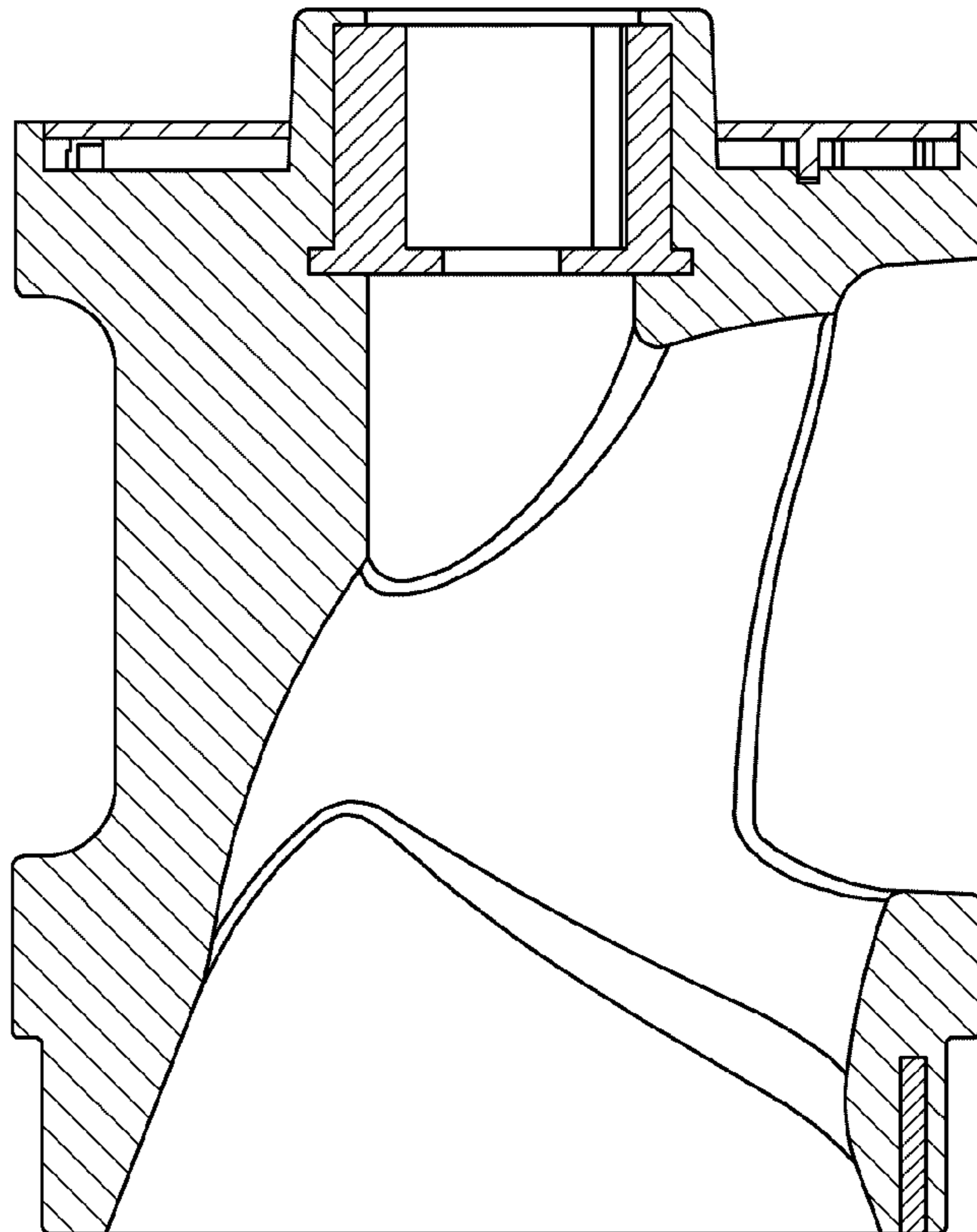


FIG. 12

