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Chen et al.

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(54) DIAPHRAGM VALVE

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USPC D23/233

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USPC D23/233, 249, 245, 248
CPC F16K 27/0236; F16K 7/16; F16K 7/126;
F16K 31/402; F16K 31/126; F16K
31/1266; F16K 31/365; F16K 41/103;
F16K 99/0015; F16K 17/085; F16K
41/10
See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

D370,054 S * 5/1996 Nakadaira D23/245

D609,307 S * 2/2010 Moriyama D23/233

10,113,665 B2 * 10/2018 Vu F16K 7/123

D917,667 S * 4/2021 Chien D23/233

D928,921 S * 8/2021 Makowski D23/249

D1,005,451 S * 11/2023 Kim D23/233

* cited by examiner

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(57) CLAIM

The ornamental design for a diaphragm valve as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of diaphragm valve showing my present design;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a left view thereof;

FIG. 5 is a right view thereof;

FIG. 6 is a top plan view thereof;

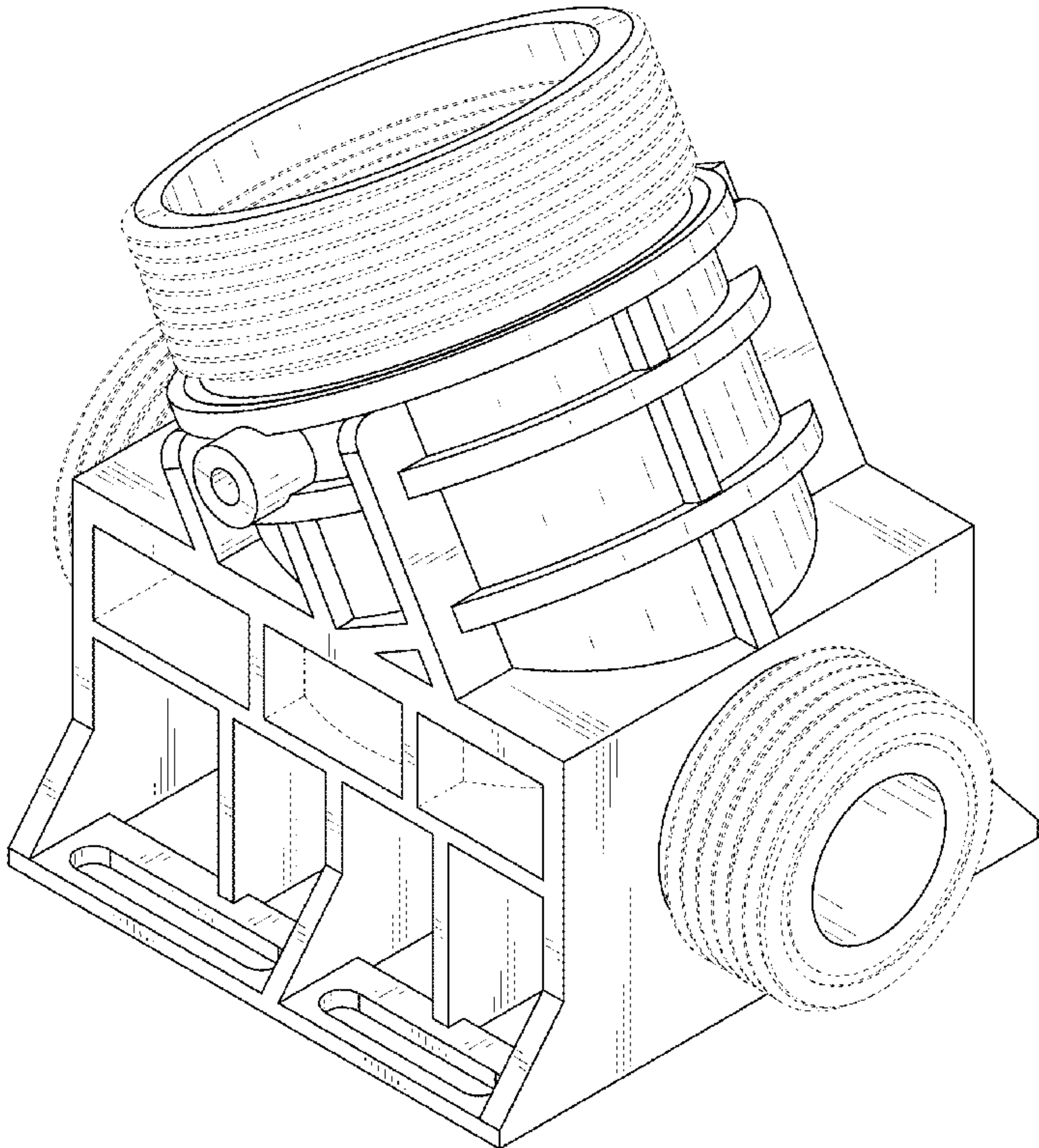
FIG. 7 is a bottom plan view thereof;

FIG. 8 is another perspective view thereof; and,

FIG. 9 is a cross-sectional view taken along the line 9-9 of FIG. 4.

The broken lines in the drawings illustrate portions of the diaphragm valve which form no part of the claimed design

1 Claim, 9 Drawing Sheets



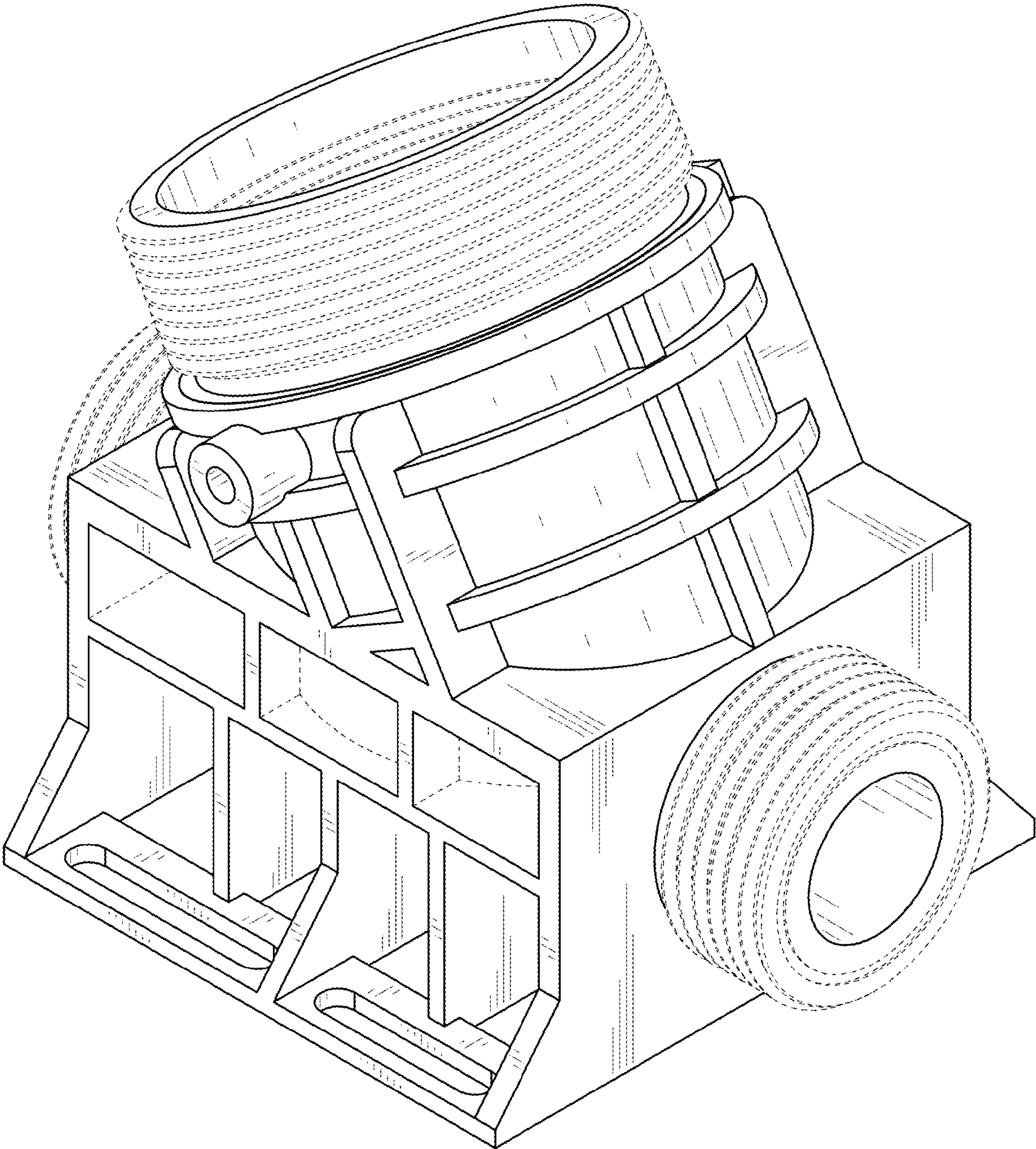


FIG. 1

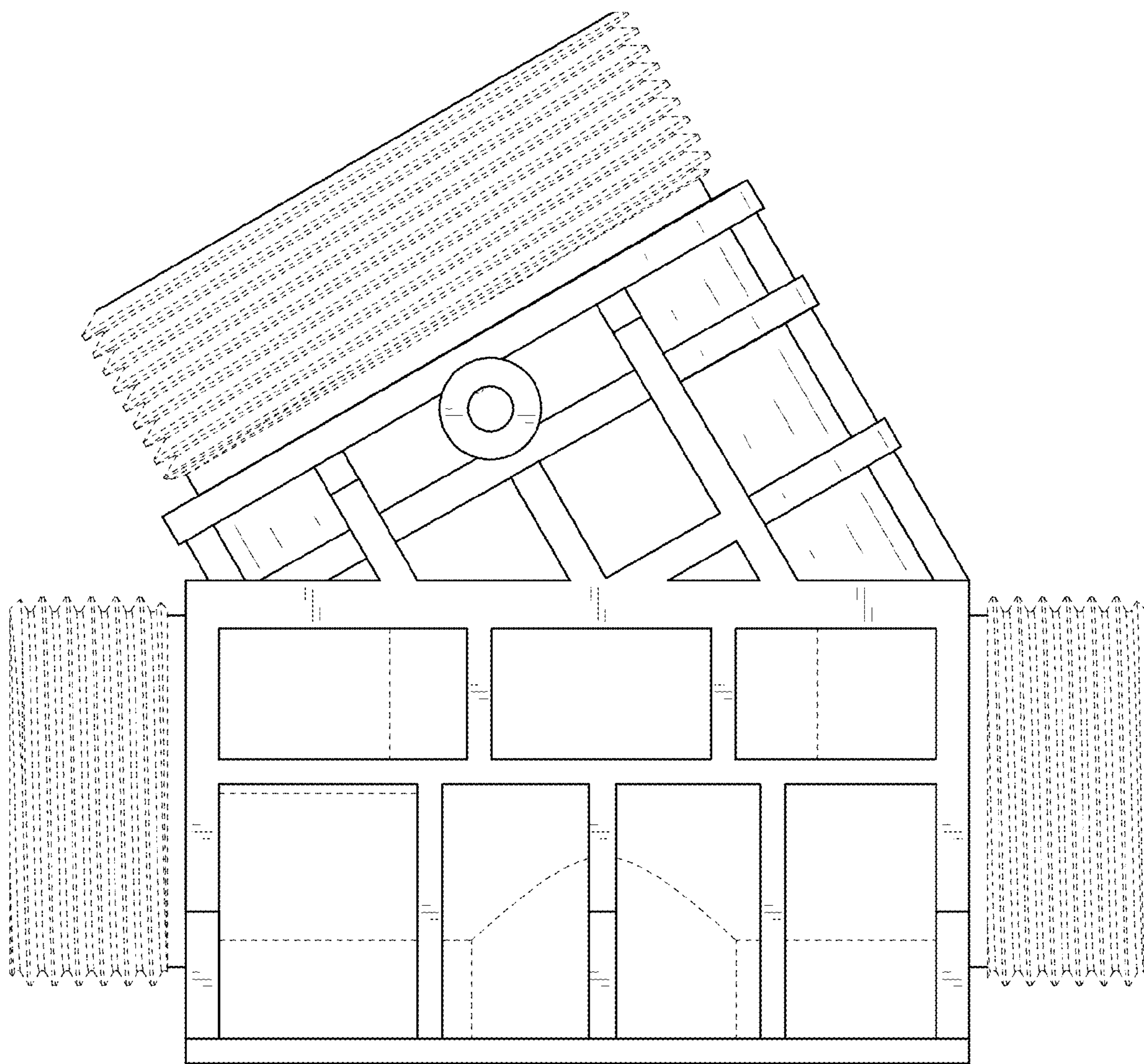
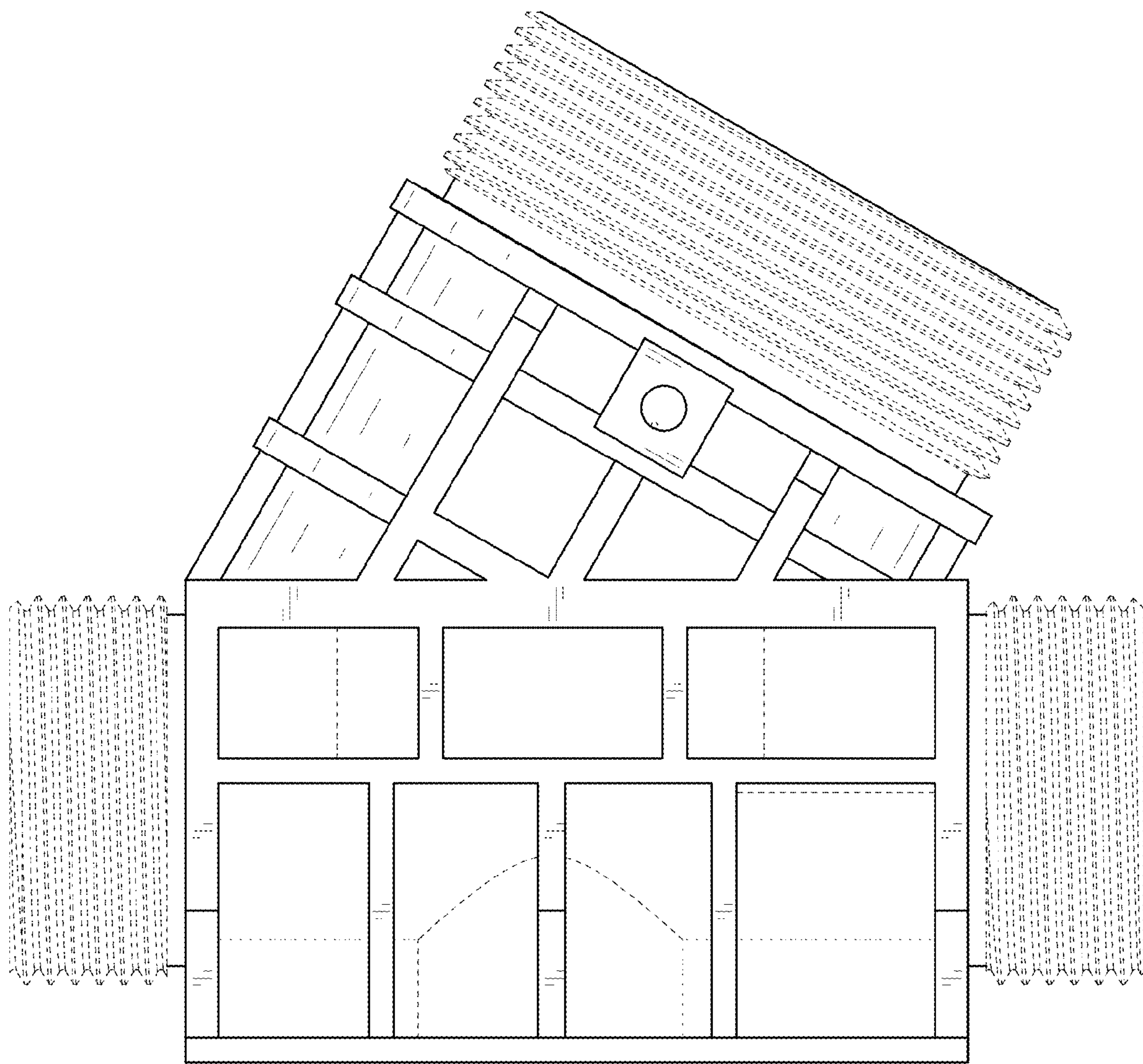


FIG. 2



F I G . 3

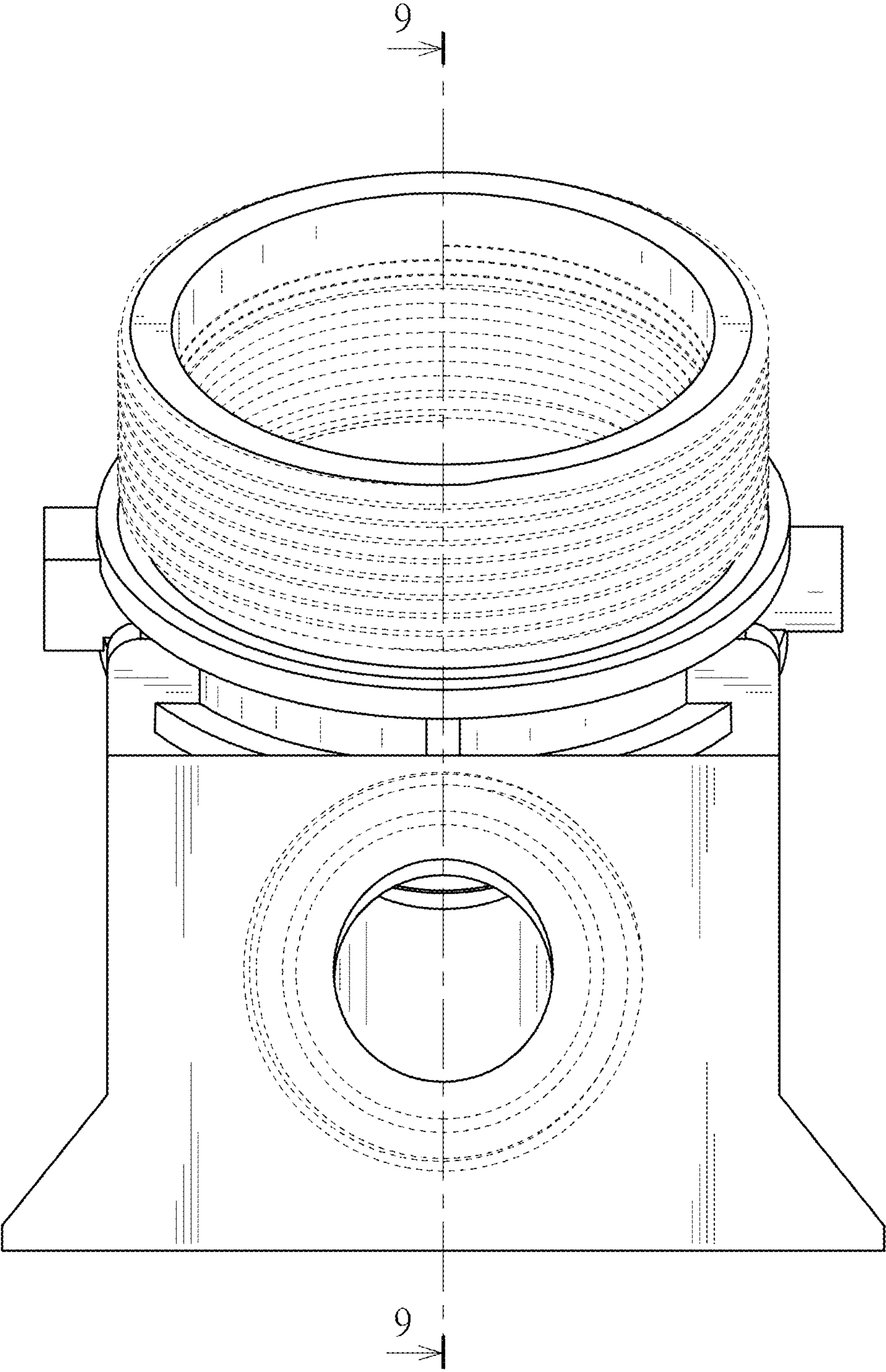


FIG. 4

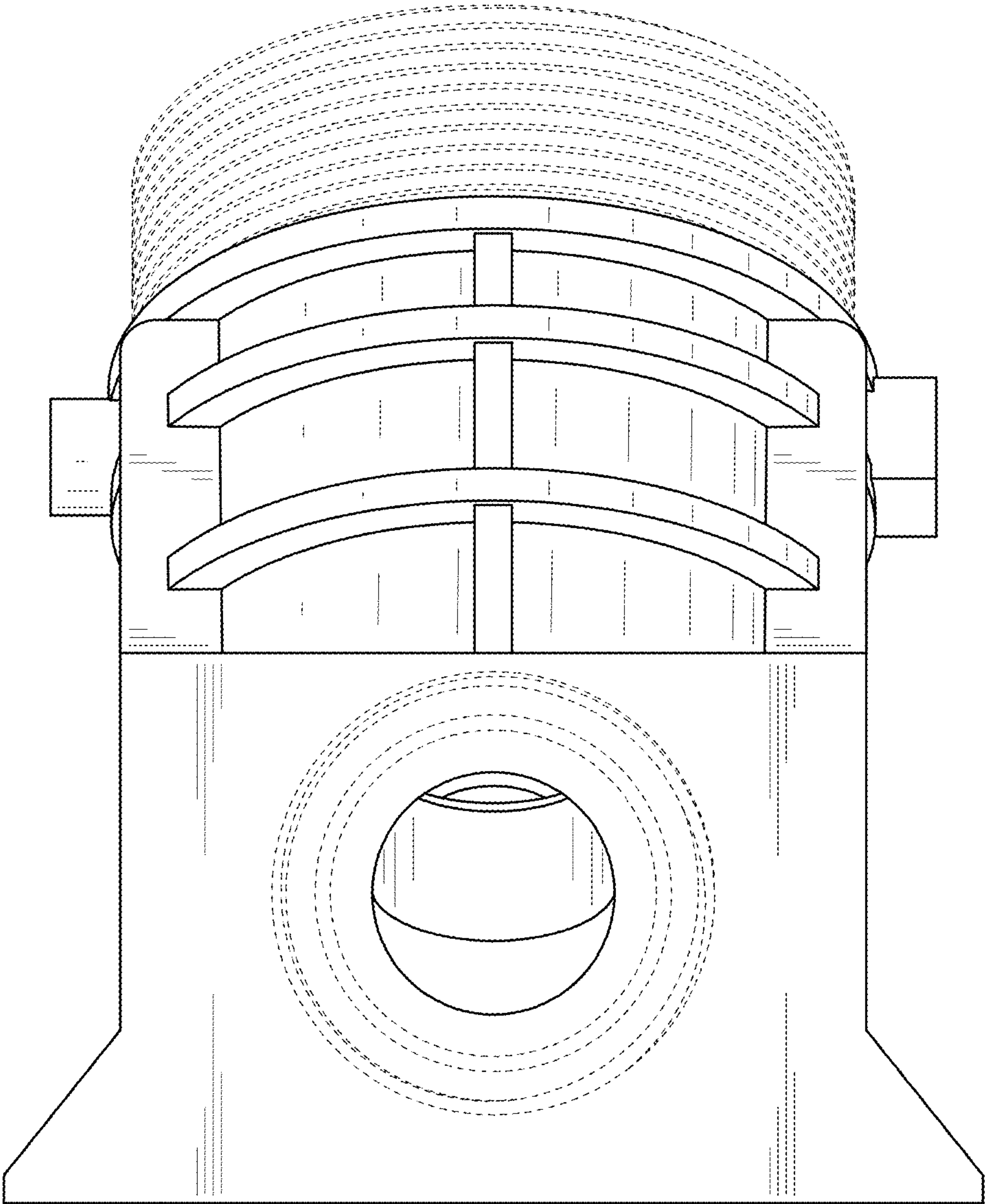
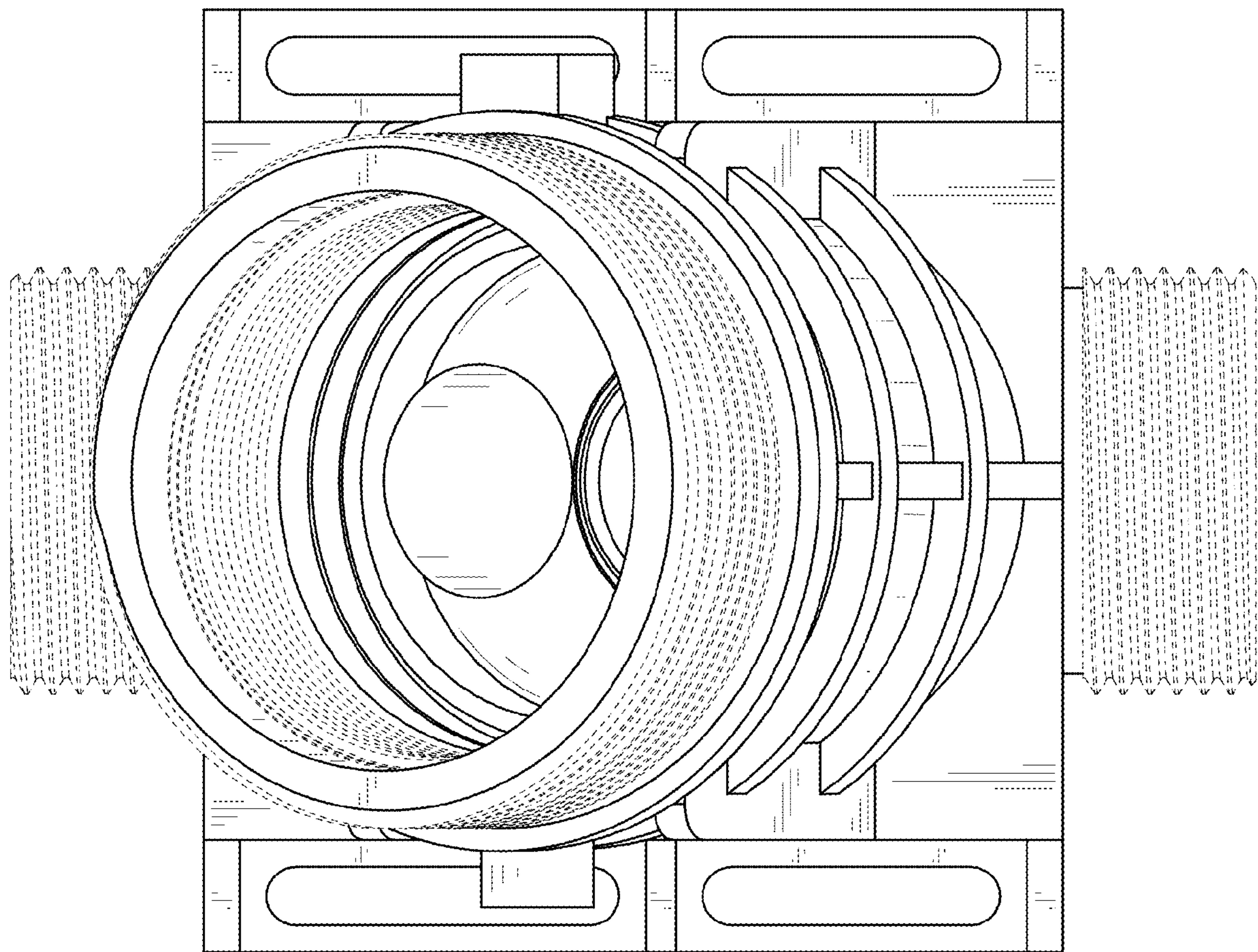


FIG. 5



F I G . 6

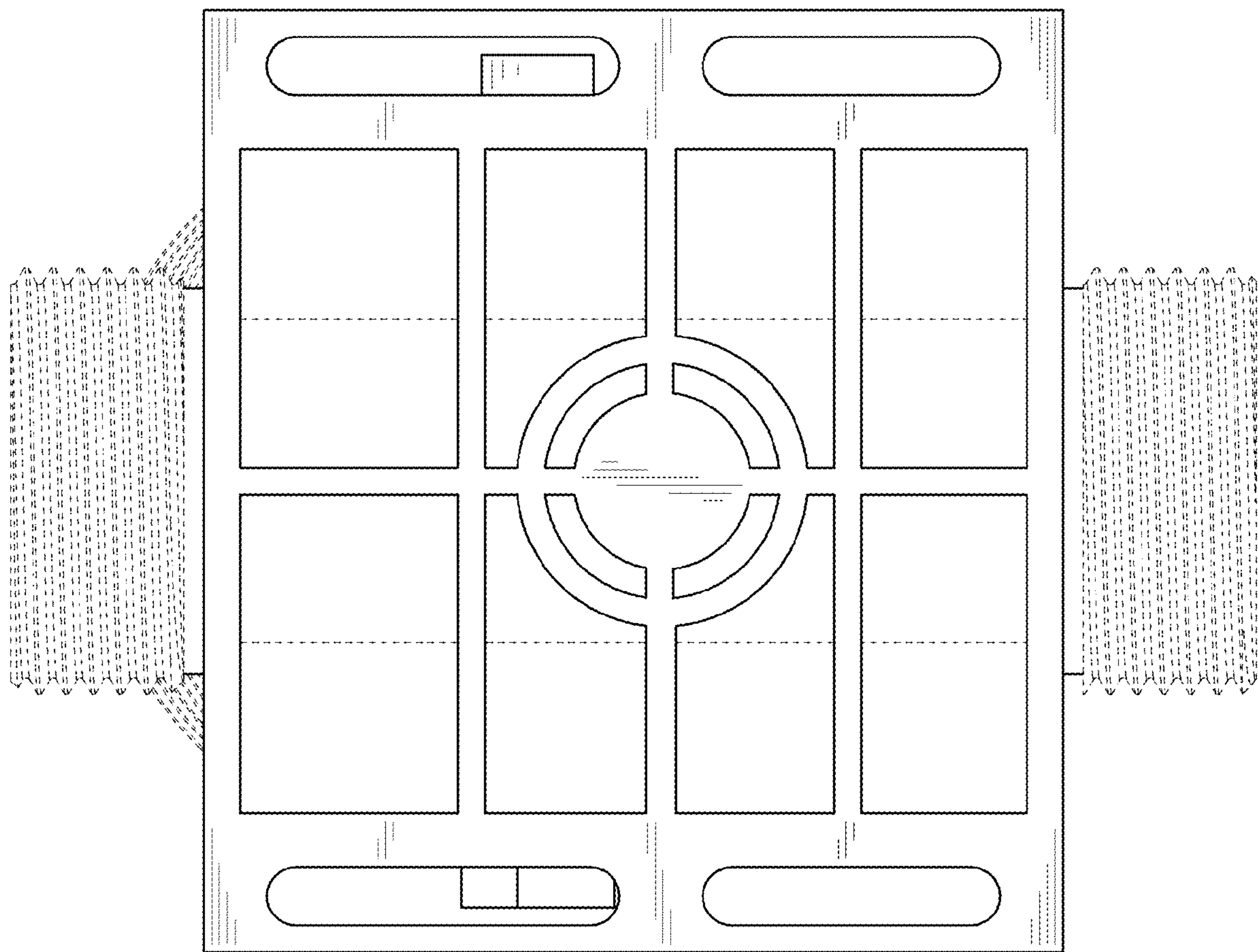
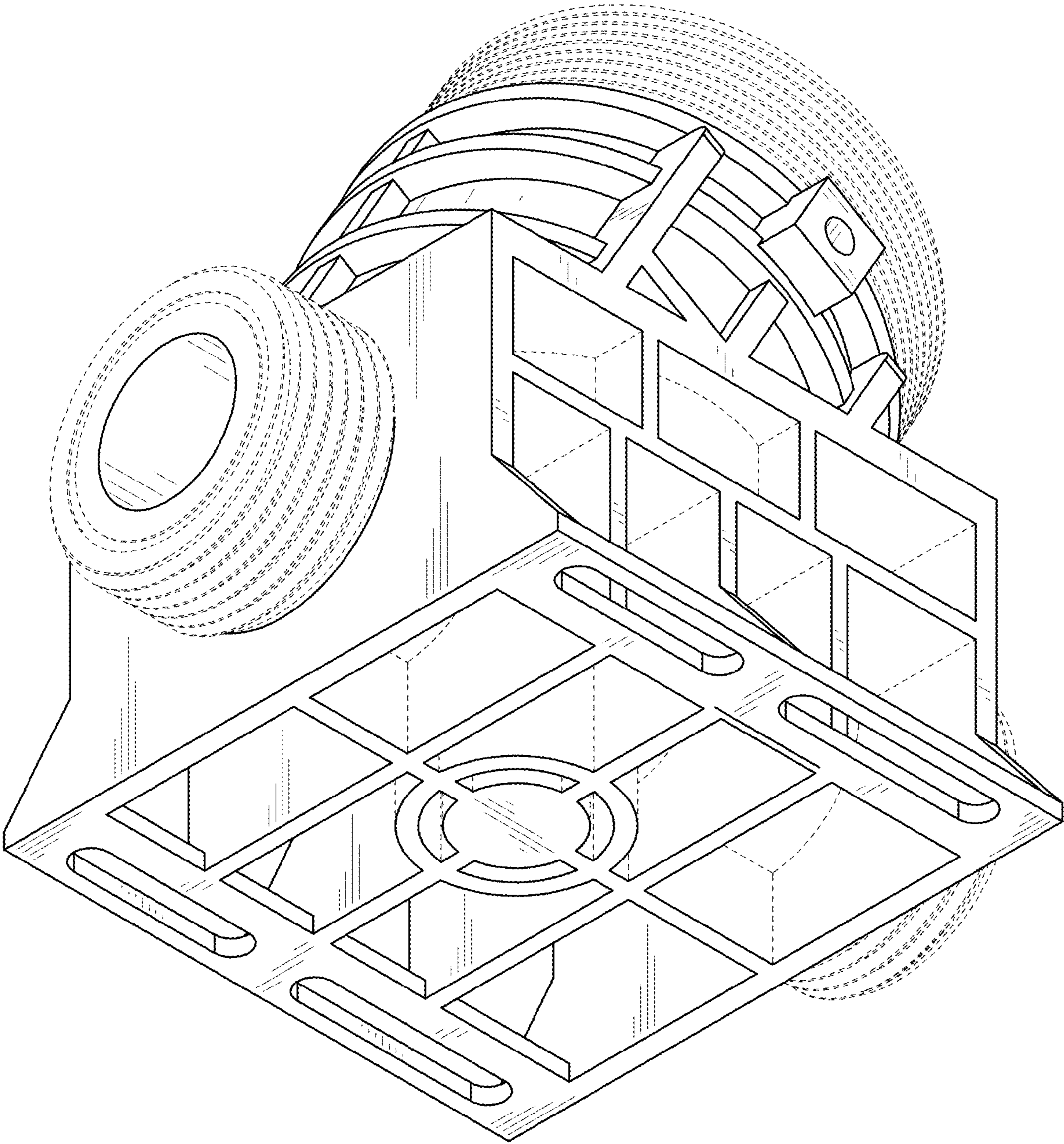


FIG. 7



F I G . 8

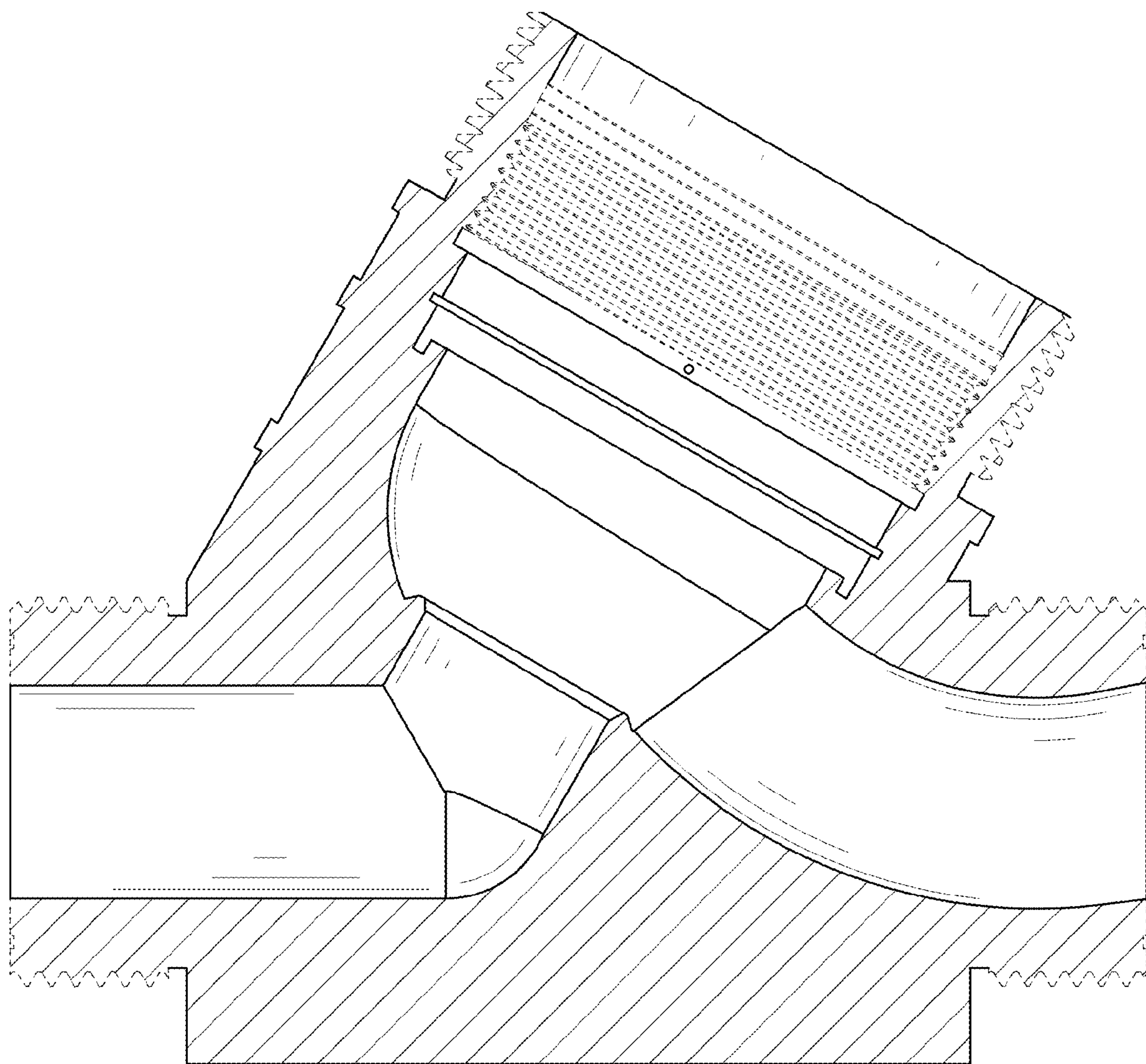


FIG. 9