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

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(54) **PIPE CONNECTOR**

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(73) Assignee: **ESSEN TECH CO., LTD.**, Gunsan-si (KR)

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

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Jul. 29, 2019 (KR) ..... 30-2019-0036210

(51) **LOC (13) Cl.** ..... **23-01**

(52) **U.S. Cl.**  
USPC ..... **D23/263**

(58) **Field of Classification Search**  
USPC ..... D23/233, 249, 259, 262, 263–266, 393;  
D32/31; 285/5, 7, 272–273, 127.1, 133.4,  
285/148.22, 190, 239, 334.5; 251/148;  
138/DIG. 4  
CPC . F16L 57/07; F16L 3/003; F16L 25/14; F16L  
43/00; F16L 9/18  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D291,481 S \* 8/1987 Vassallo ..... D23/263  
D517,666 S \* 3/2006 Wilk, Jr. .... D23/262  
D676,941 S \* 2/2013 Kluss ..... D23/262  
D729,909 S \* 5/2015 Castrigno ..... D23/263

D731,627 S \* 6/2015 Guest ..... D23/262  
D739,508 S \* 9/2015 Menno ..... D23/263  
D741,458 S \* 10/2015 Guest ..... D23/262  
D746,958 S \* 1/2016 Gledhill ..... D23/262  
D751,675 S \* 3/2016 Gledhill ..... D23/259  
D796,010 S \* 8/2017 Downie ..... D23/263  
D835,245 S \* 12/2018 Salehi-Bakhtiari ..... D23/263  
D886,250 S \* 6/2020 Ji Ho ..... D23/263  
2016/0305583 A1\* 10/2016 Conrad ..... F16L 13/116

\* cited by examiner

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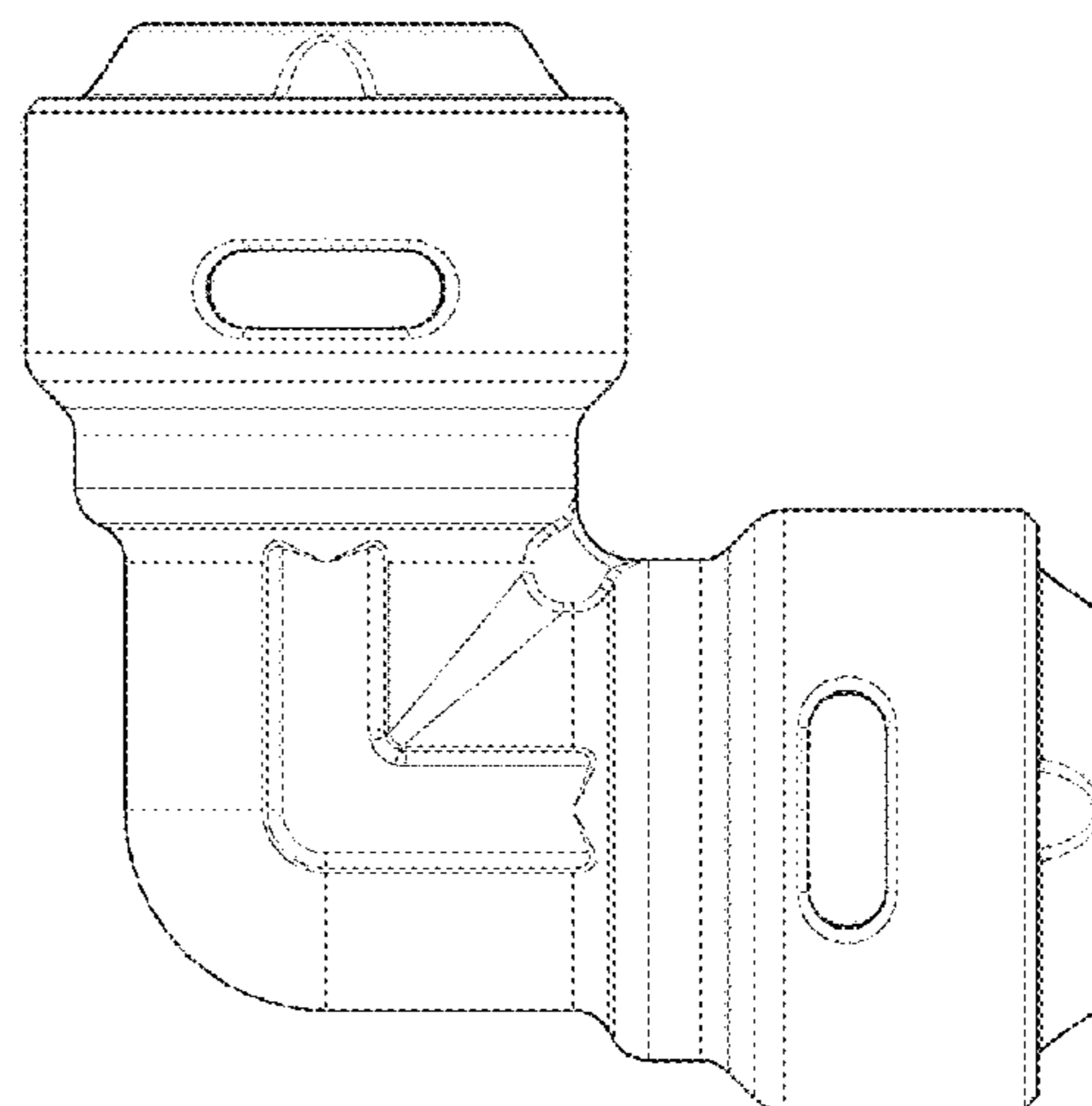
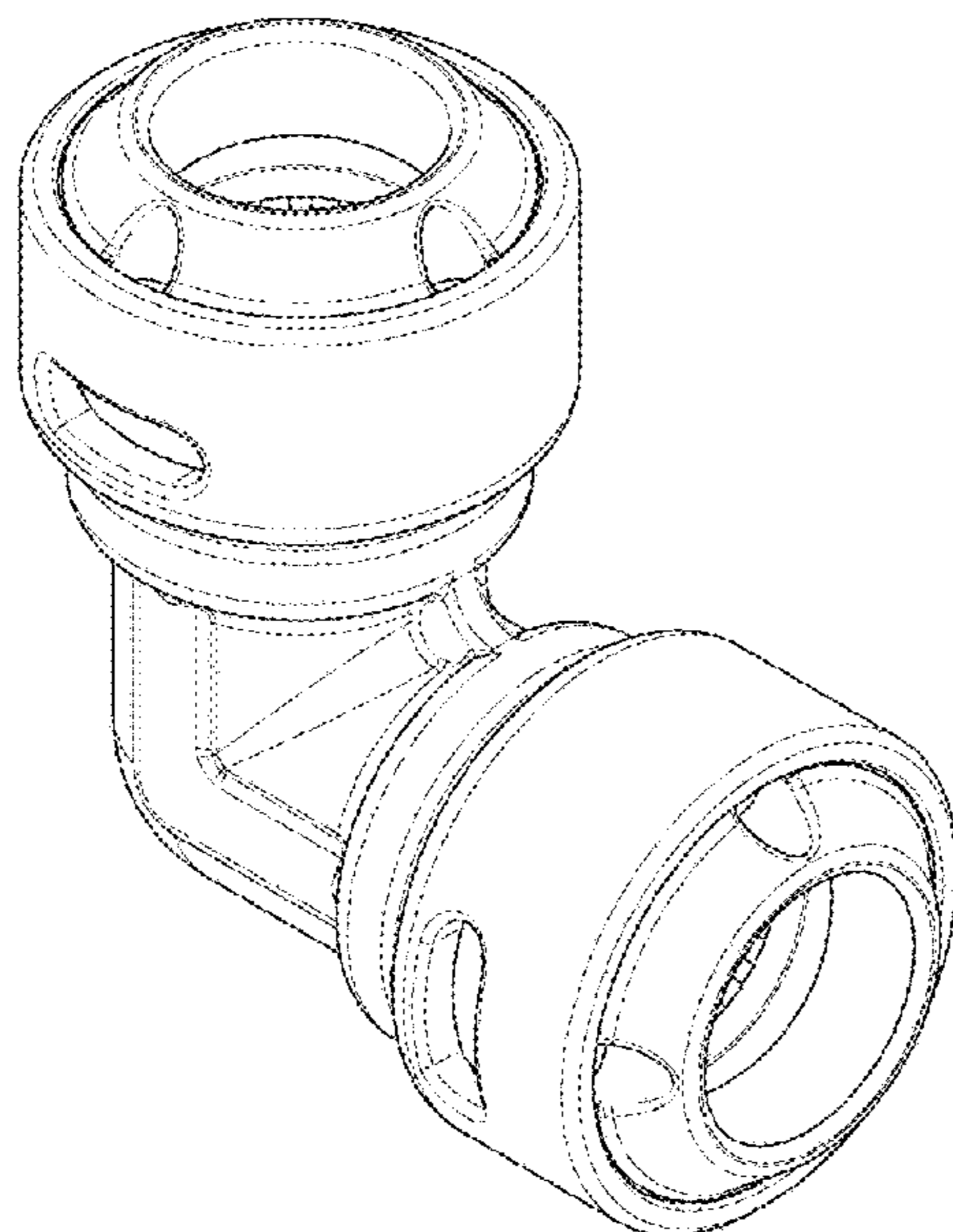
(57) **CLAIM**

The ornamental design for a pipe connector, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a pipe connector;  
FIG. 2 is a front view thereof;  
FIG. 3 is a rear view thereof;  
FIG. 4 is a left side view thereof;  
FIG. 5 is a right side view thereof;  
FIG. 6 is a top view thereof;  
FIG. 7 is a bottom view thereof; and,  
FIG. 8 is a cross-sectional view thereof, taken along line 8-8 in FIG. 5.

**1 Claim, 6 Drawing Sheets**



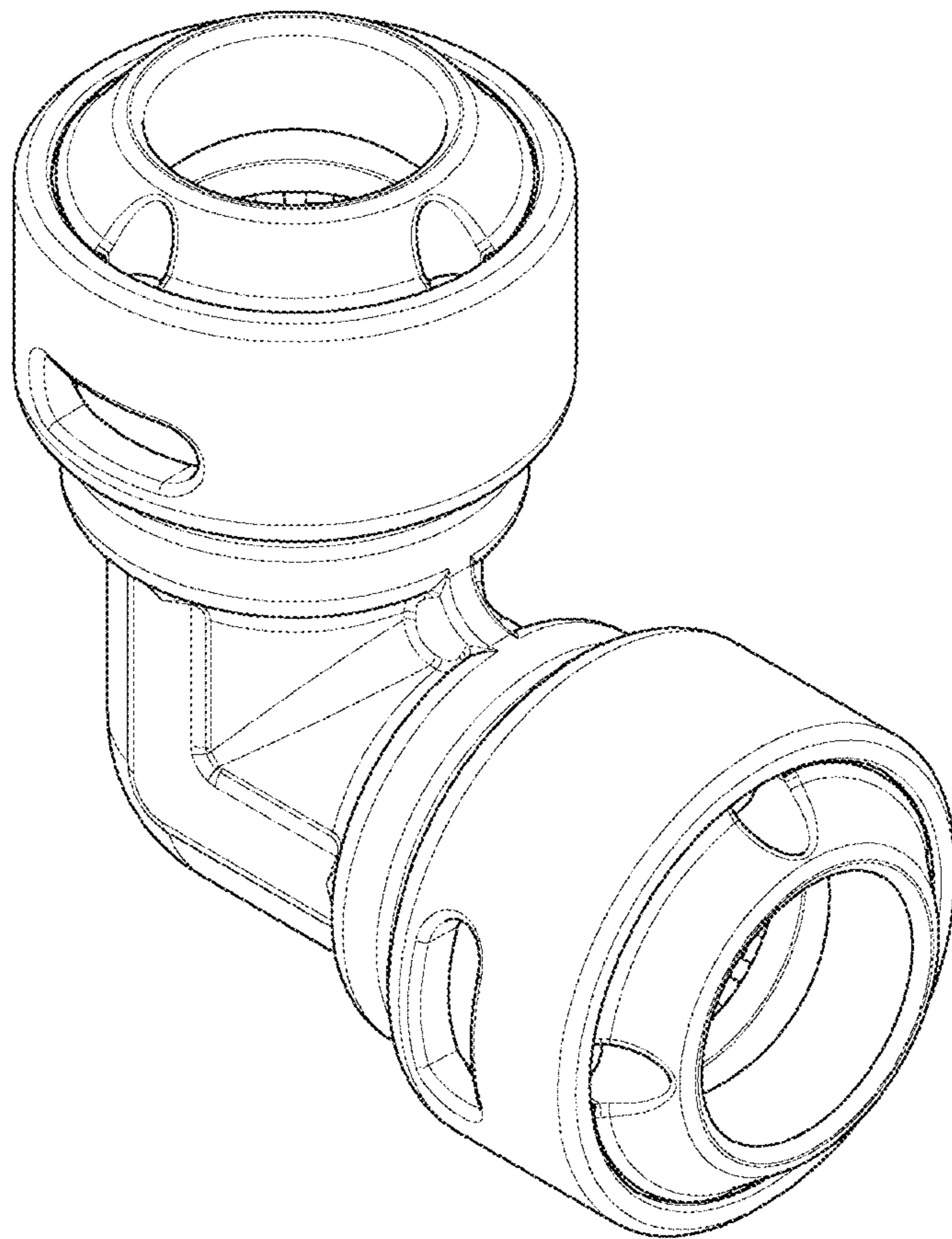


FIG. 1

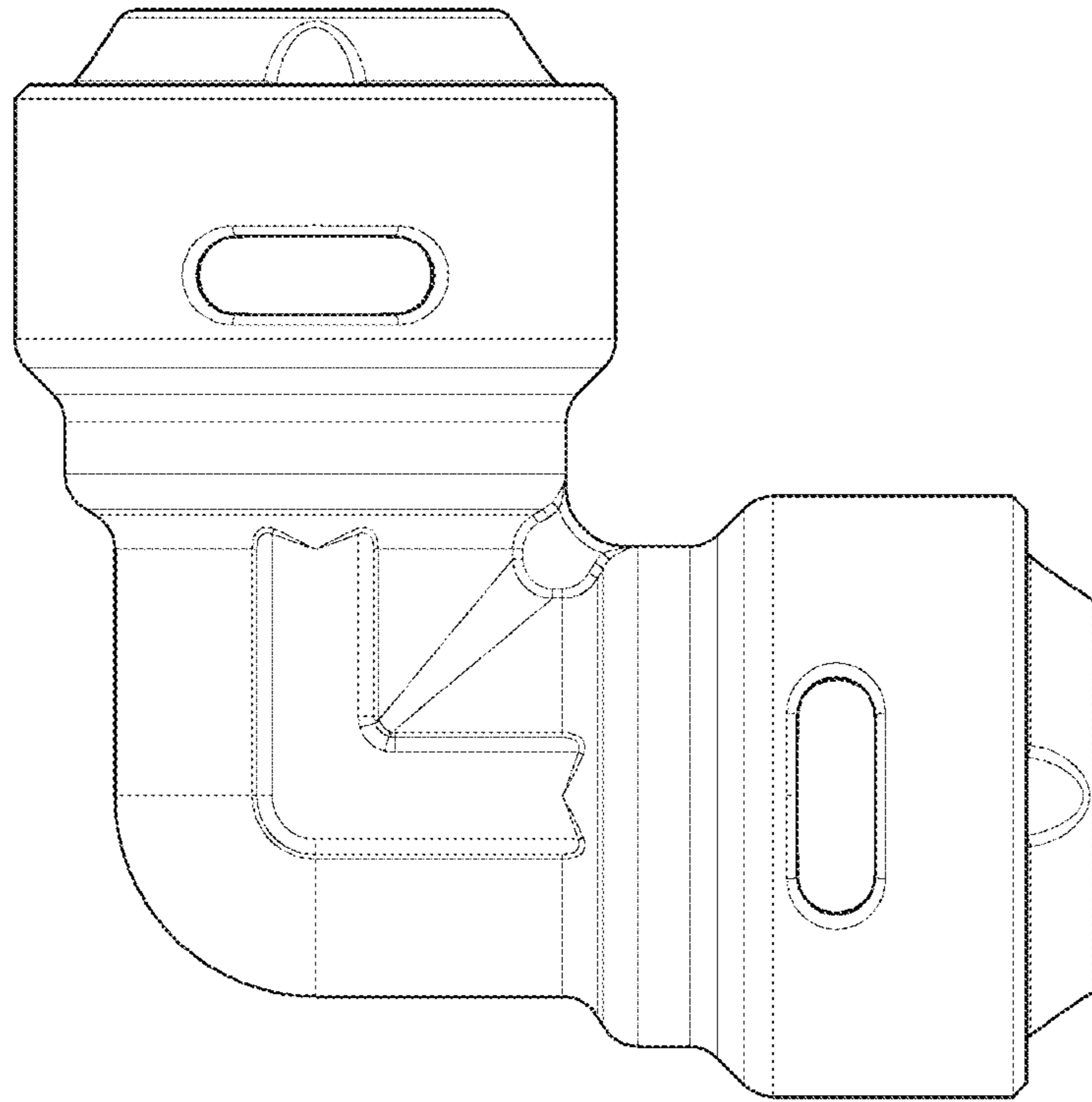


FIG. 2

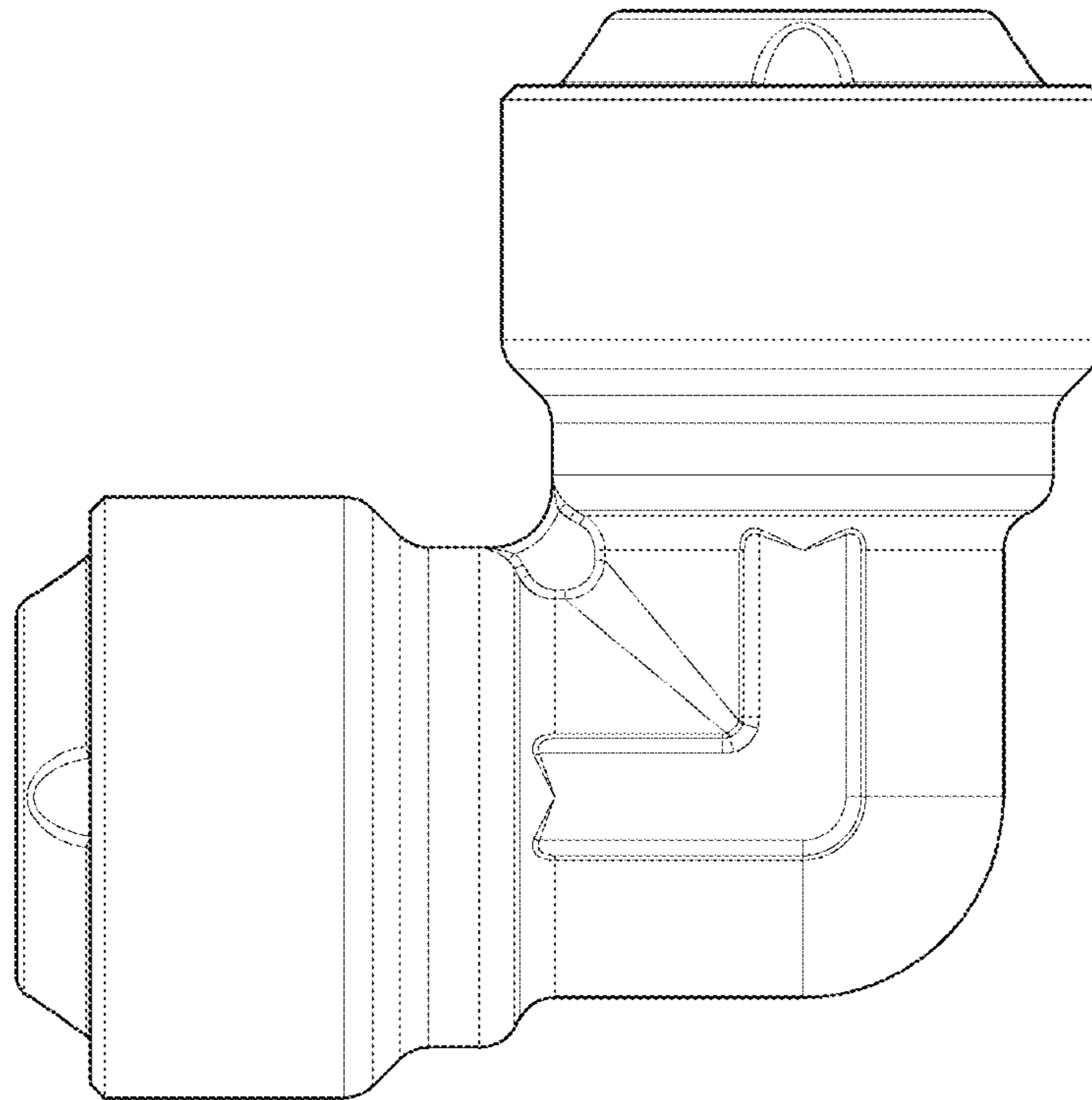


FIG. 3

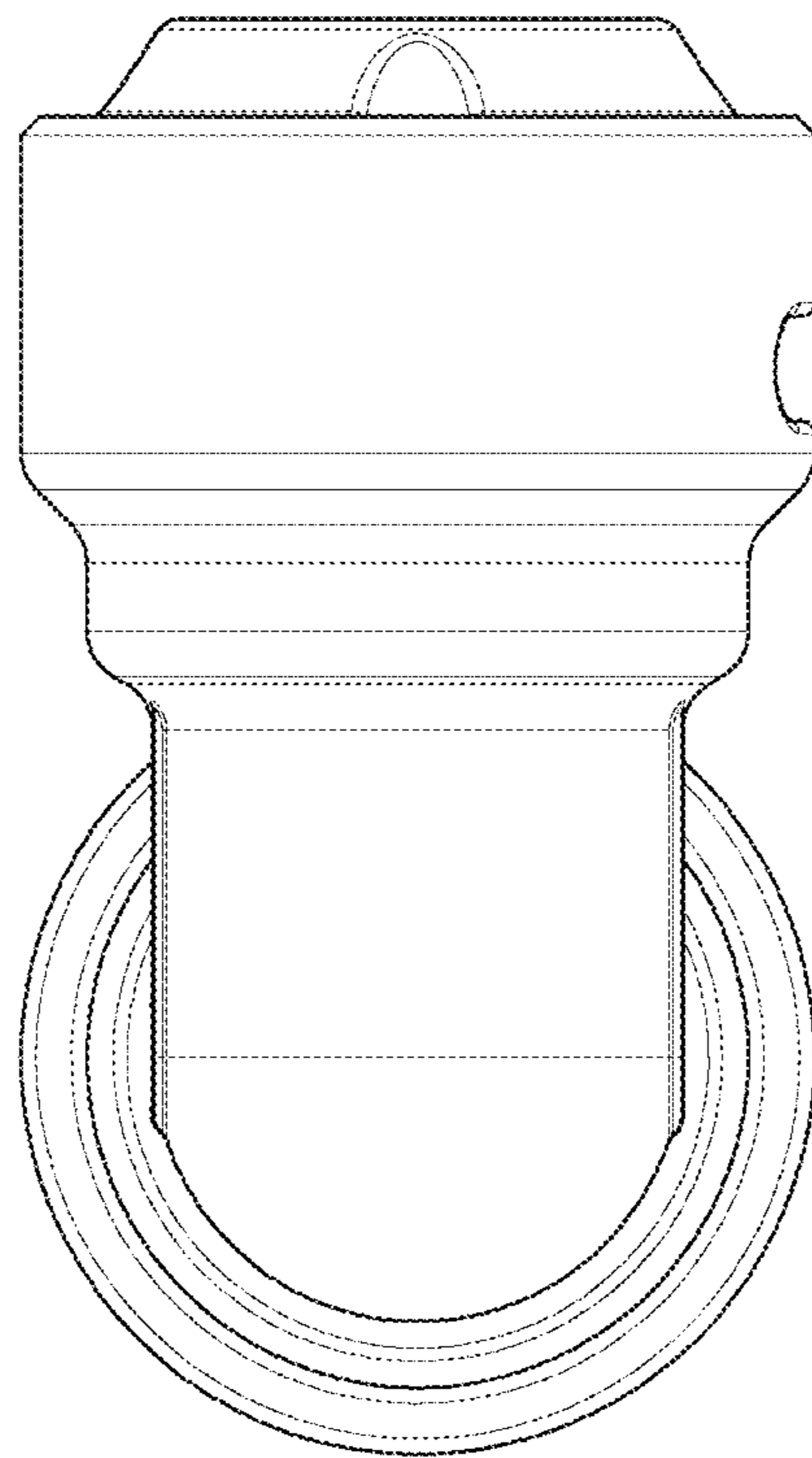


FIG. 4

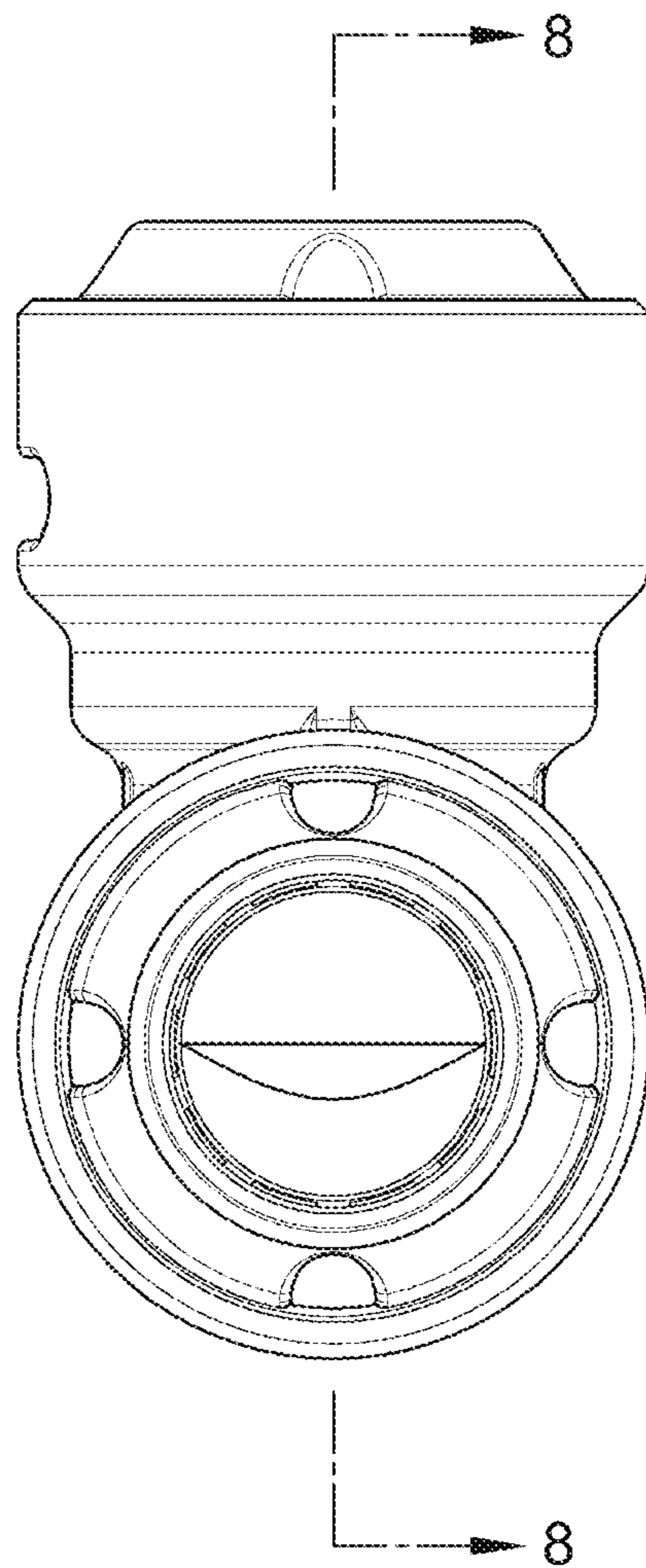


FIG. 5

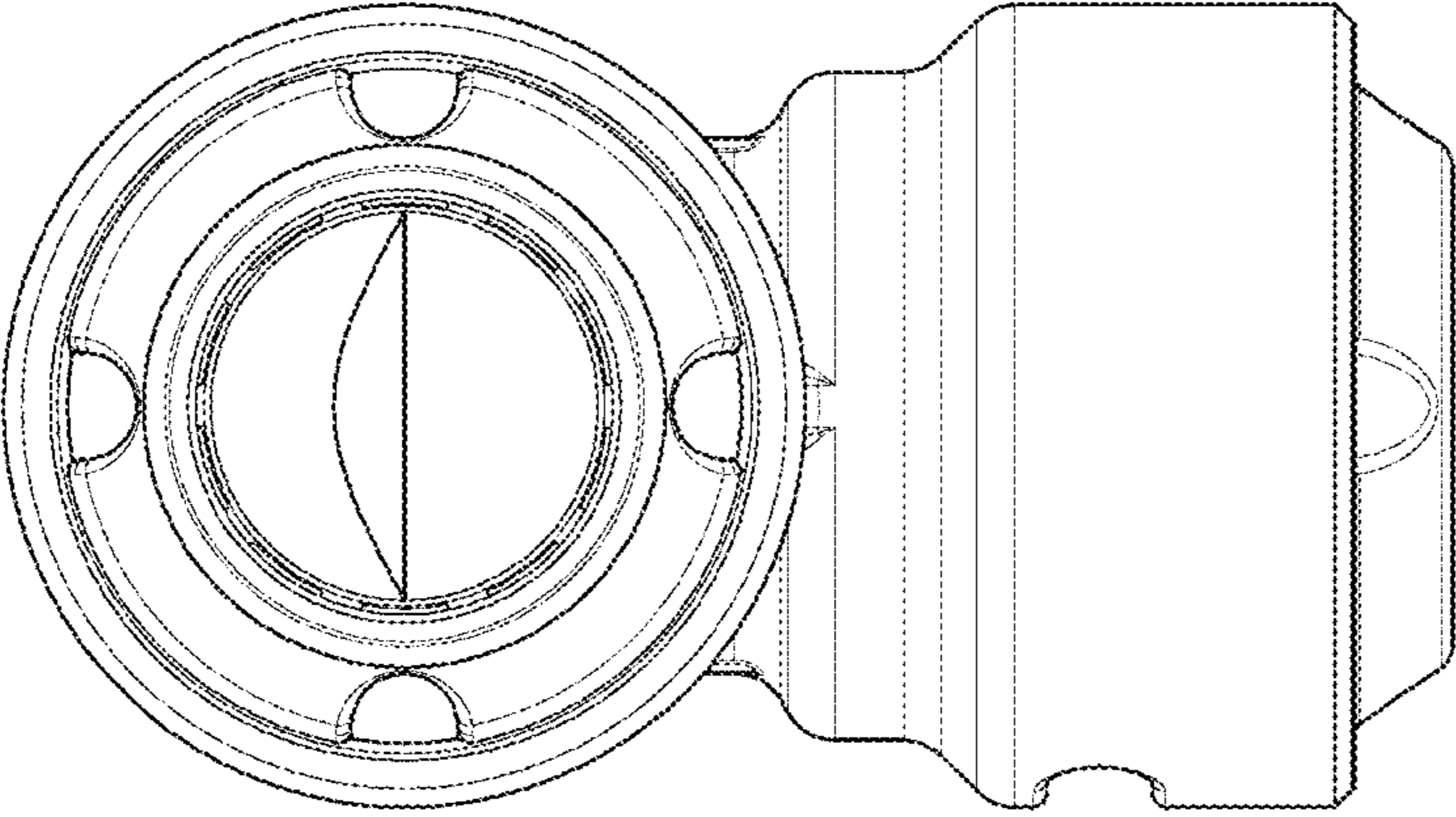


FIG. 6

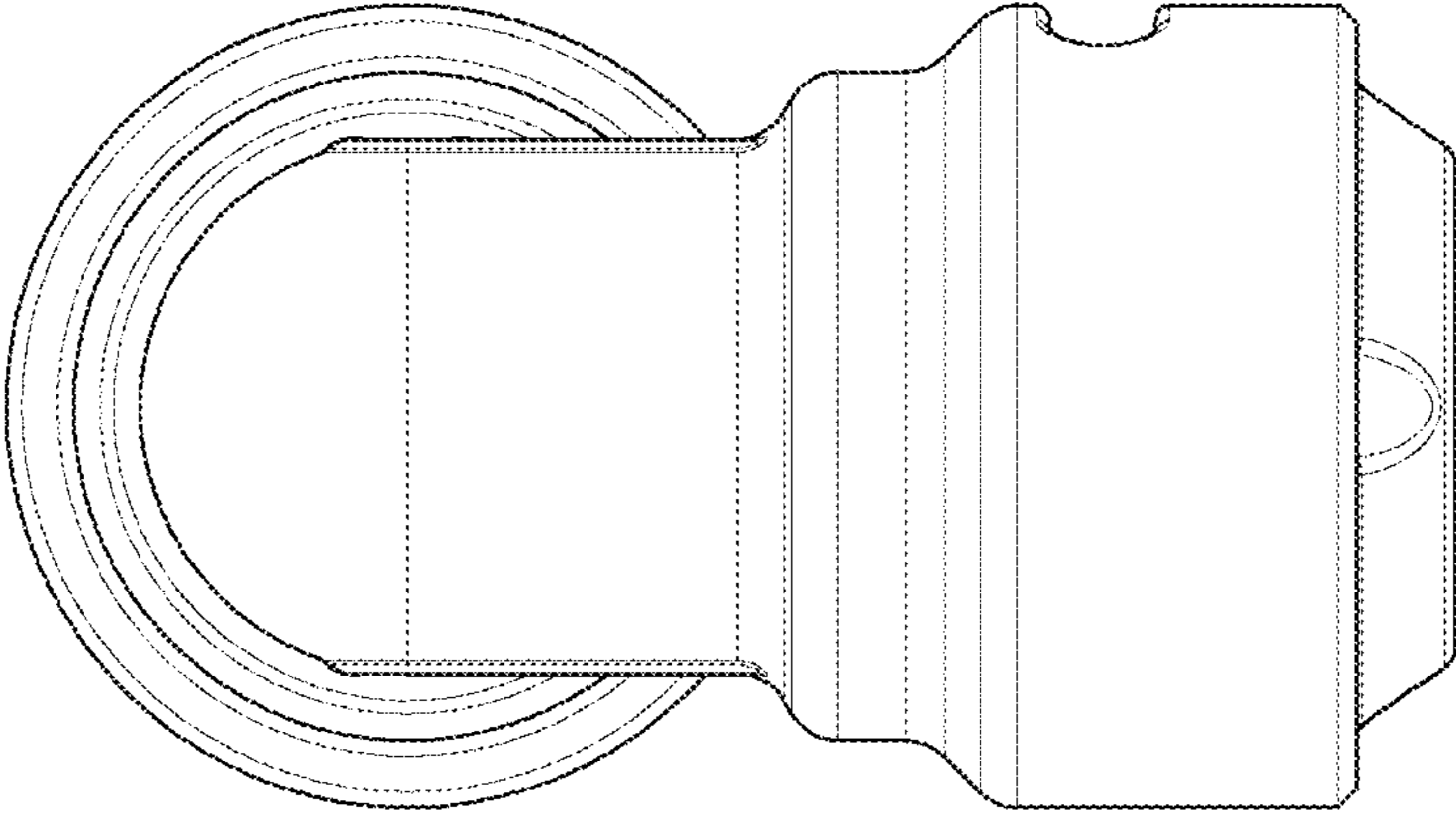


FIG. 7

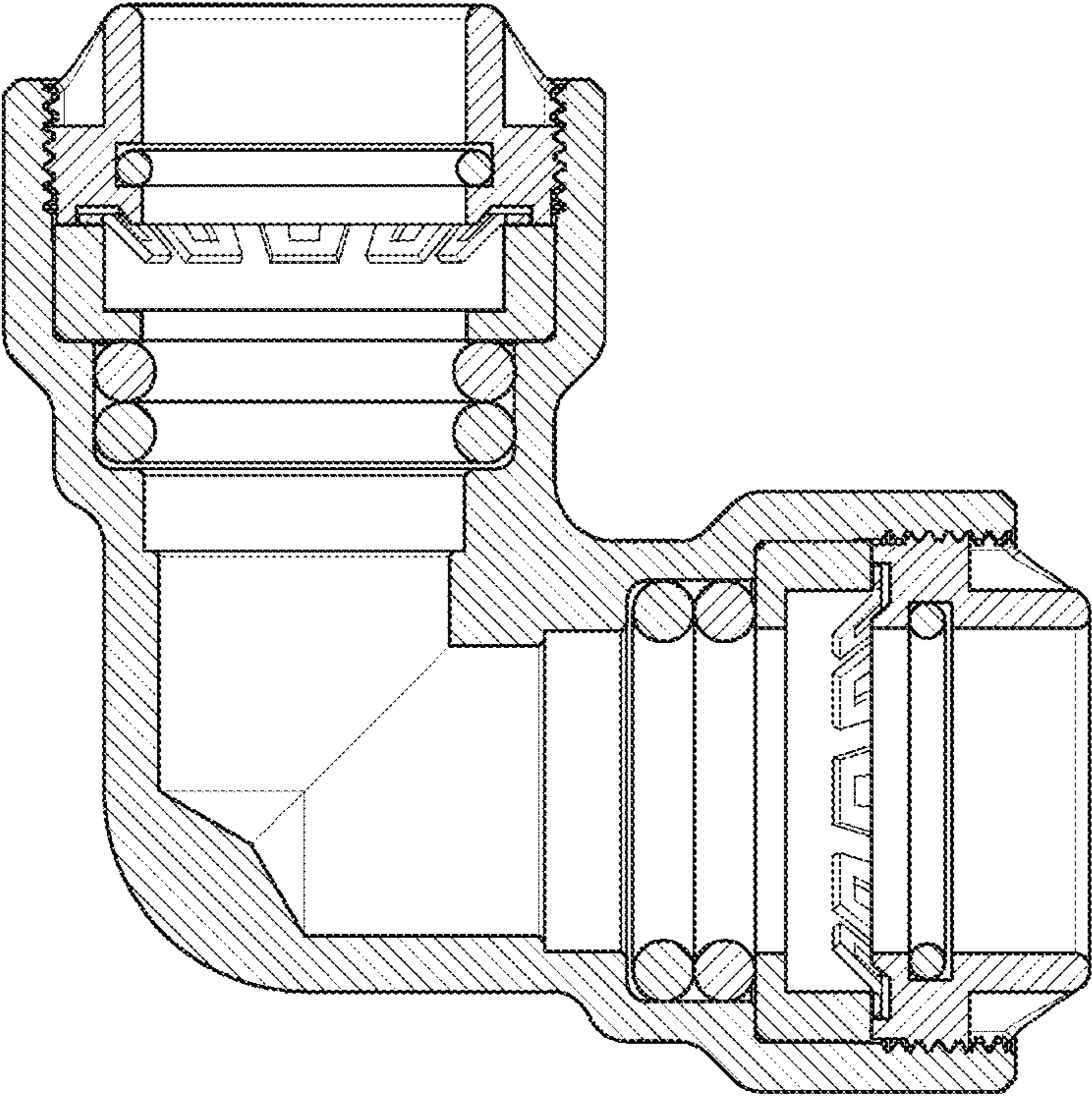


FIG. 8