



US00D887527S

(12) **United States Design Patent** (10) **Patent No.:** **US D887,527 S**
Koiwa et al. (45) **Date of Patent:** **** Jun. 16, 2020**

(54) **WRENCH SOCKET FOR SPRINKLER HEAD** 6,957,477 B1 * 10/2005 Neiman B25B 27/14
29/278
(71) Applicant: **SENJU SPRINKLER CO., LTD.**, 7,055,614 B1 6/2006 Ide
Adachi-ku, Tokyo (JP) D570,955 S * 6/2008 Franson D23/213
D673,825 S * 1/2013 Koiwa D8/14
(72) Inventors: **Yasuaki Koiwa**, Tokyo (JP); **Hisayoshi**
Ohkoshi, Tokyo (JP) D868,574 S * 12/2019 Pittman D8/396
(Continued)

(73) Assignee: **SENJU SPRINKLER CO., LTD.**,
Adachi-ku, Tokyo (JP)

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

(21) Appl. No.: **29/656,235**

(22) Filed: **Jul. 11, 2018**

(30) **Foreign Application Priority Data**

Jan. 12, 2018 (JP) 2018-000345

(51) **LOC (12) Cl.** **23-01**

(52) **U.S. Cl.**
USPC **D23/214**

(58) **Field of Classification Search**

USPC D23/213, 214, 218, 227, 254; D8/350,
D8/352, 399; D21/443, 444; D30/119,
D30/121, 123, 124, 131, 132, 160;
D24/130; D15/144, 144.1, 144.2
CPC B05B 15/70; B05B 15/74; B05B 15/00;
A01G 3/06; A63F 13/10; A62C 37/08;
A62C 31/02

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,085,633 A * 4/1978 Jackson B25B 13/48
81/111
D359,340 S * 6/1995 Morgan D23/213
D428,326 S * 7/2000 Nakamura D8/356
6,487,942 B1 12/2002 Carter et al.
6,796,013 B2 * 9/2004 Melker B25B 13/48
29/240

FOREIGN PATENT DOCUMENTS

TW 160588 5/2014
TW 201741000 A 12/2017

OTHER PUBLICATIONS

Senju Wrench Socket FR-H II [Dec. 13, 2019] found online [Dec. 13, 2019]—<https://www.senjuprunker.com/product/wrench-socket-fr-h-ii/>.*

(Continued)

Primary Examiner — Brandon M Rosati

Assistant Examiner — John A Voytek

(74) *Attorney, Agent, or Firm* — Buchanan Ingersoll & Rooney PC

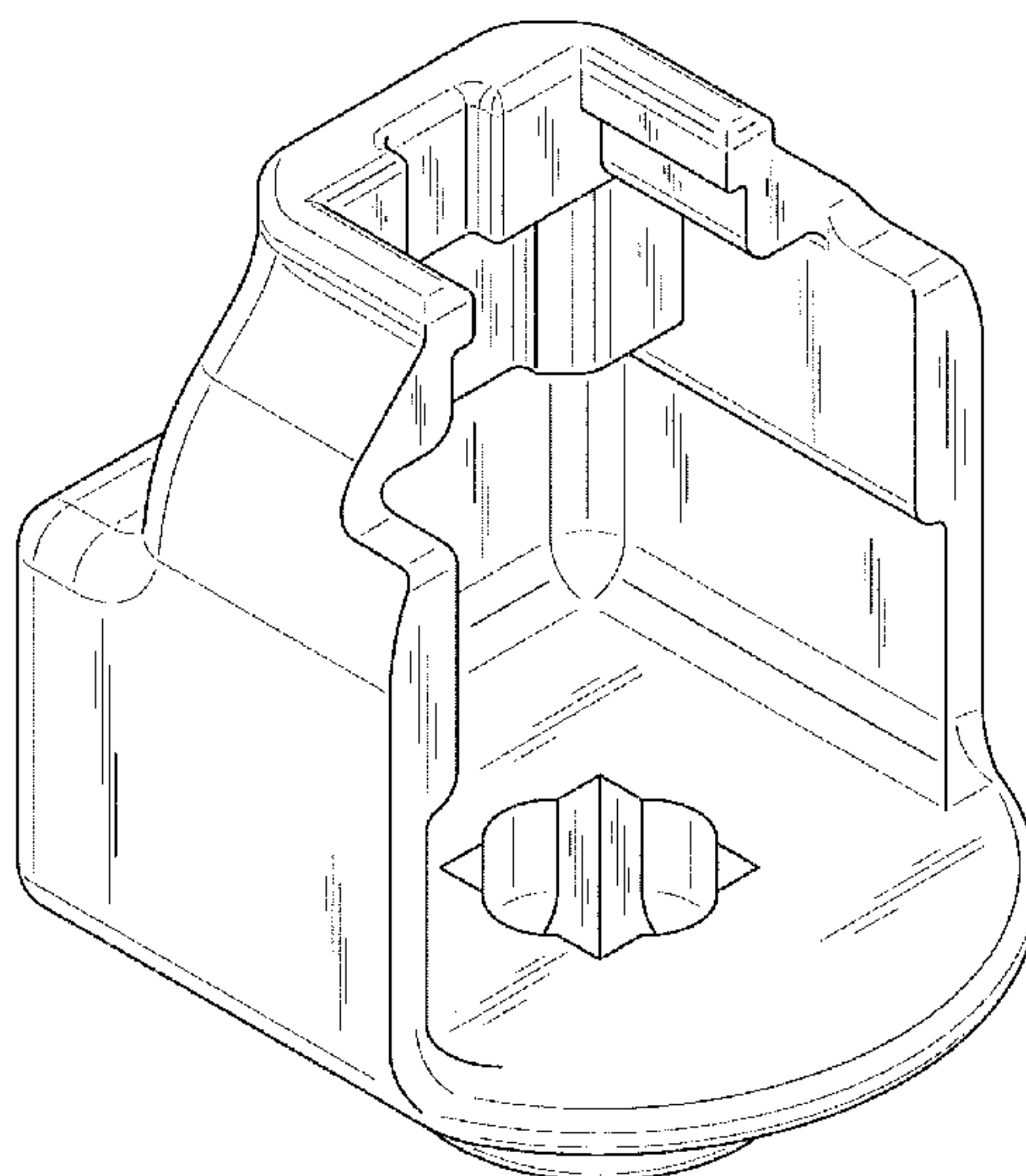
(57) **CLAIM**

The ornamental design for a wrench socket for a sprinkler head, as shown and described.

DESCRIPTION

FIG. 1 is a front elevational view of a wrench socket for a sprinkler head showing our new design;
FIG. 2 is a rear elevational view thereof;
FIG. 3 is a left side elevational view thereof; a right side elevational view thereof being a same image;
FIG. 4 is a top plan view thereof;
FIG. 5 is a bottom plan view thereof;
FIG. 6 is a cross-sectional view thereof taken along line 6-6 in FIG. 1; and,
FIG. 7 is a perspective view thereof.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2005/0103888 A1* 5/2005 Corbett B05B 15/62
239/276
2006/0219817 A1* 10/2006 Franson A62C 37/08
239/502
2013/0334809 A1* 12/2013 Cole, Jr. B05B 15/00
285/13
2015/0075334 A1 3/2015 Watson et al.
2019/0143163 A1* 5/2019 Schnell A62C 35/68
169/37
2019/0175968 A1* 6/2019 Pressnell A62C 35/68

OTHER PUBLICATIONS

Office Action (Notice of Allowance) dated Oct. 26, 2018, by the
Taiwanese Patent Office in corresponding Taiwanese Patent Appli-
cation No. 107302833. (3 pages).

* cited by examiner

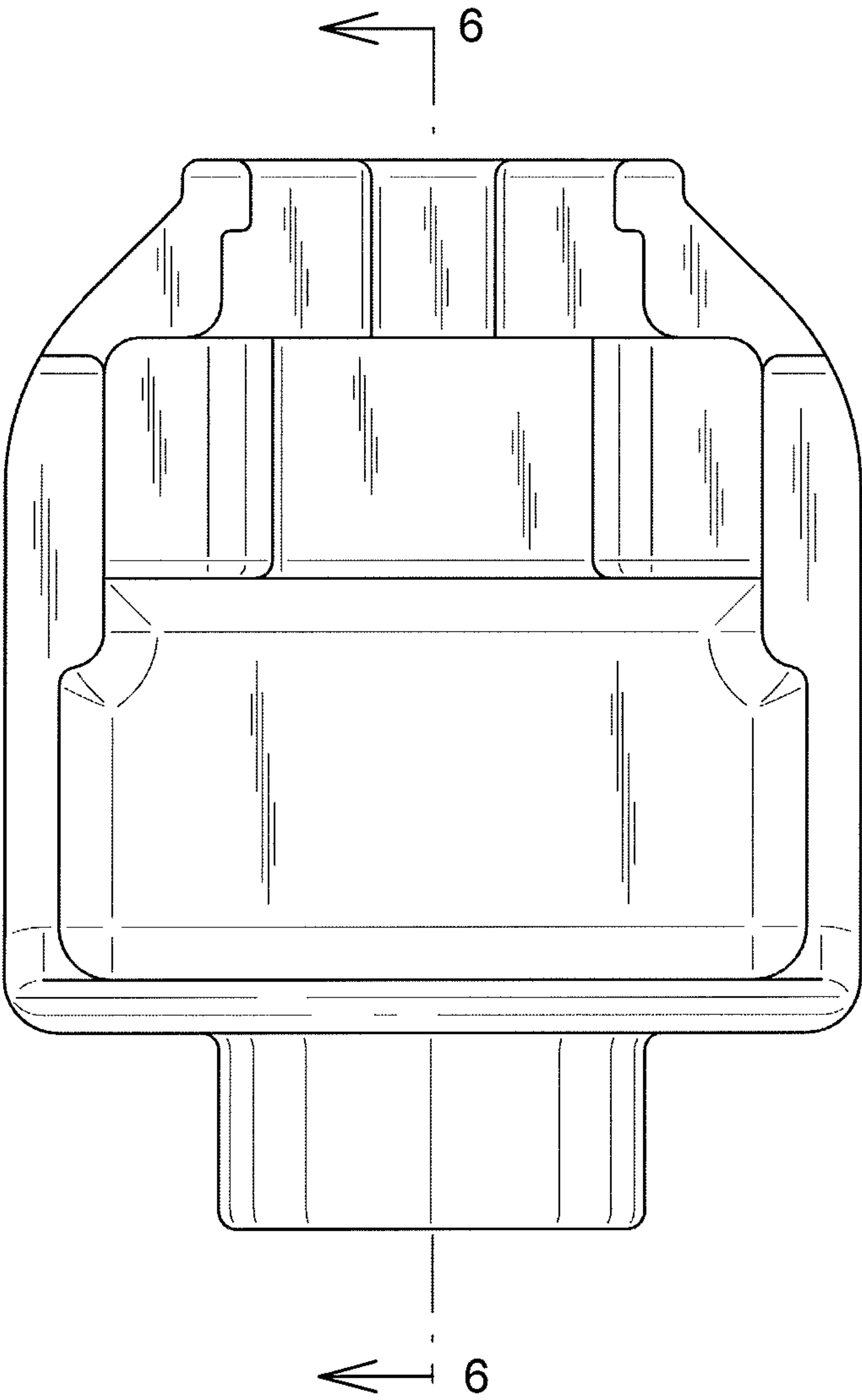


FIG. 1

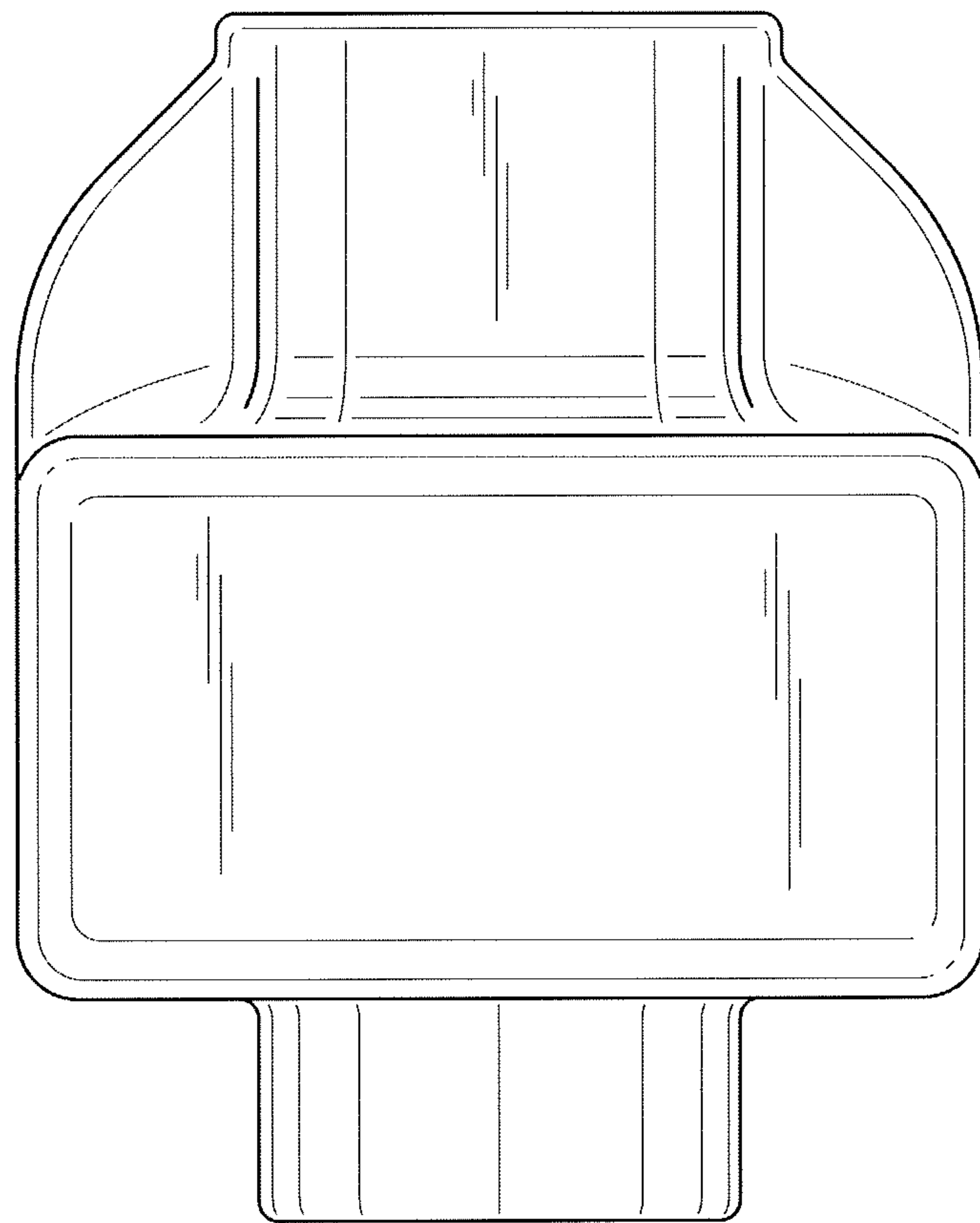


FIG. 2

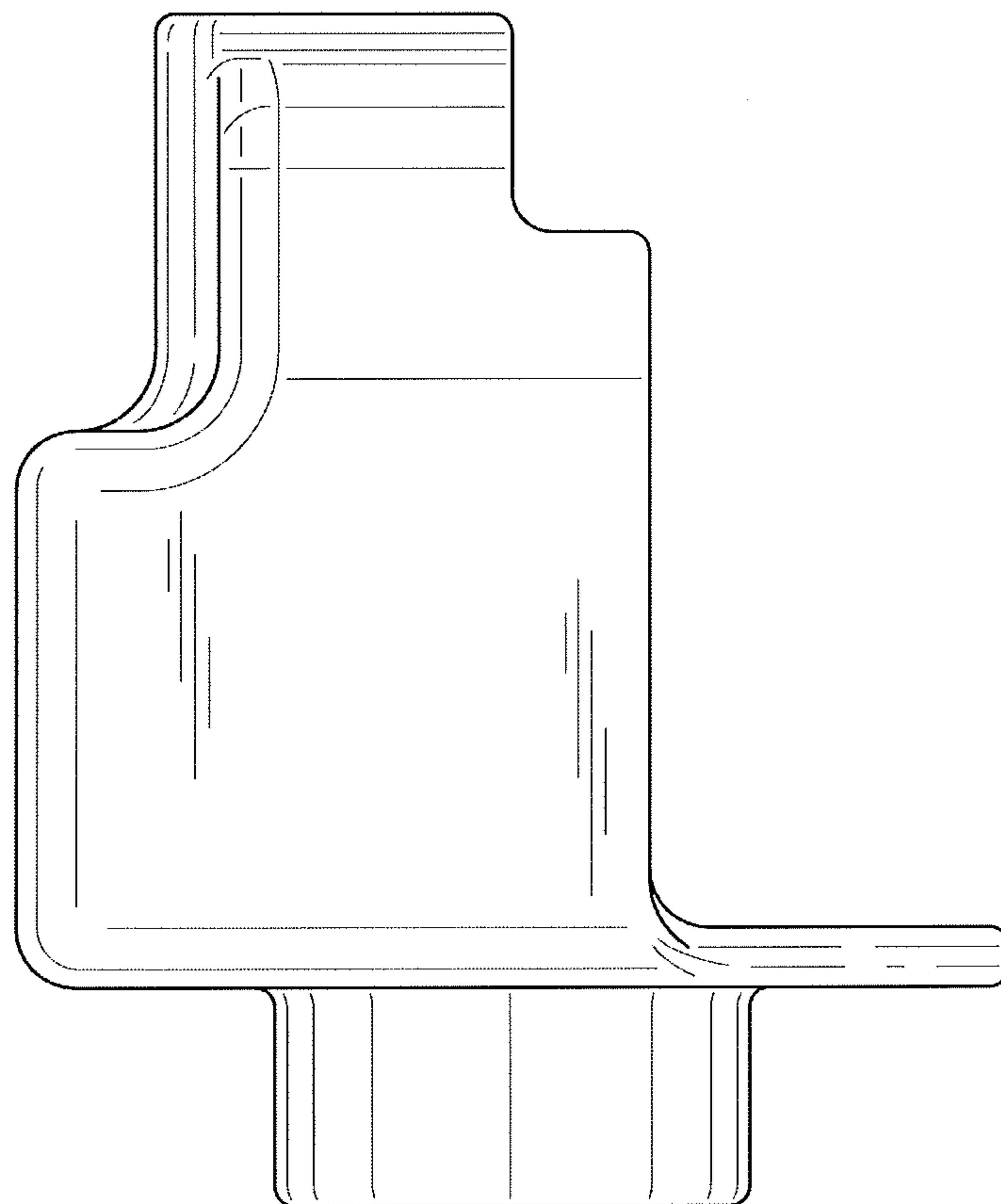


FIG. 3

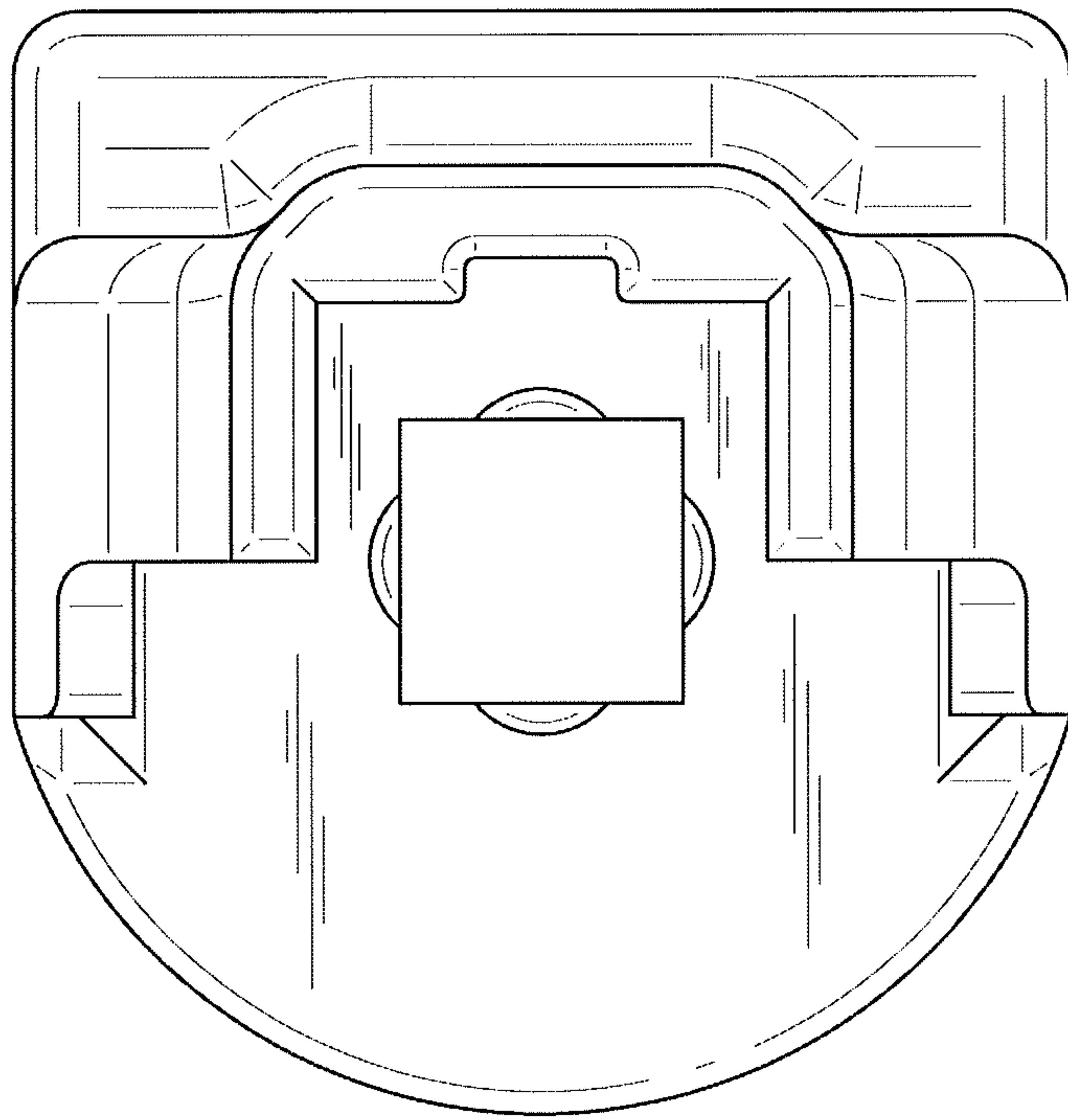


FIG. 4

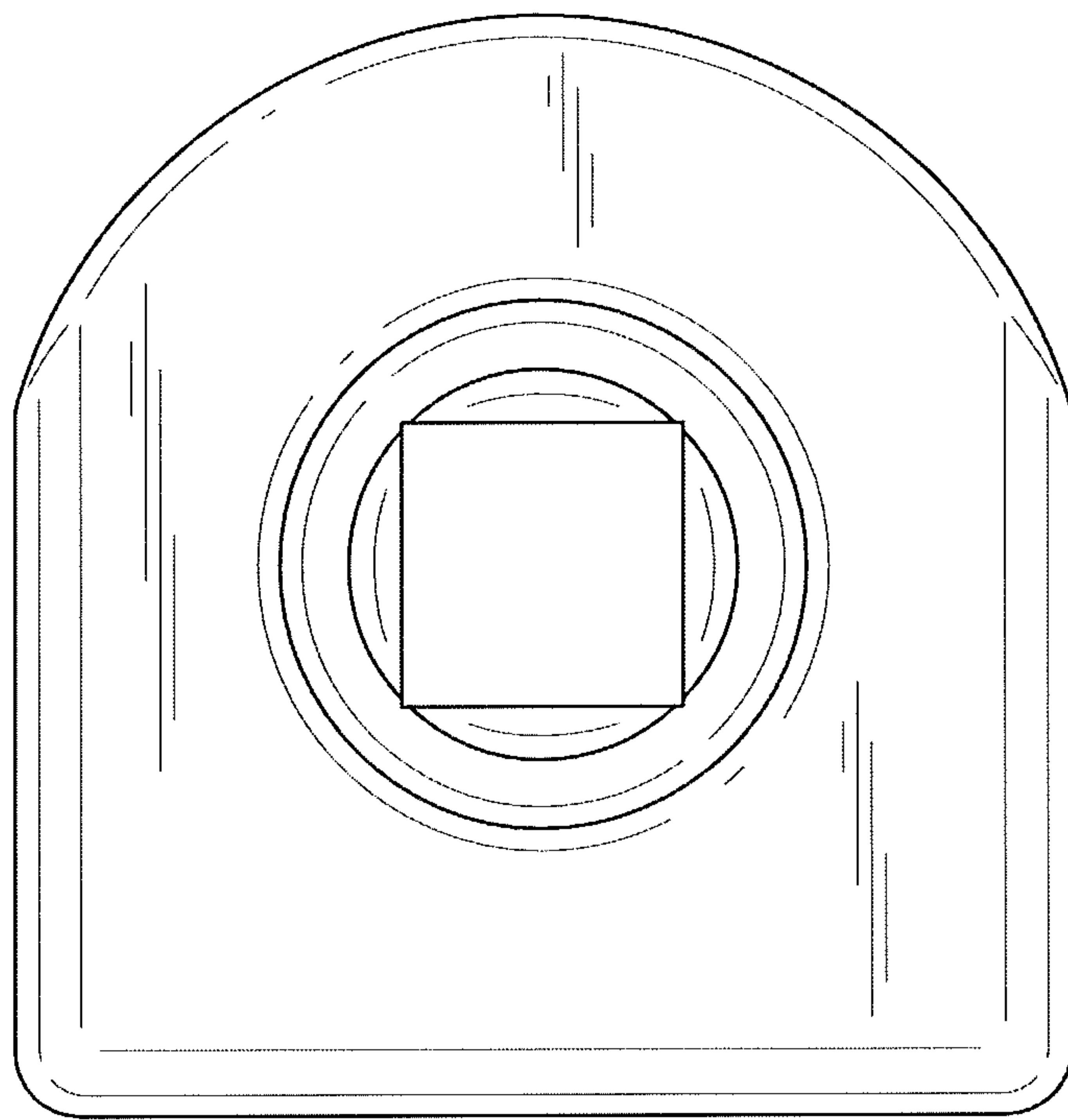


FIG. 5

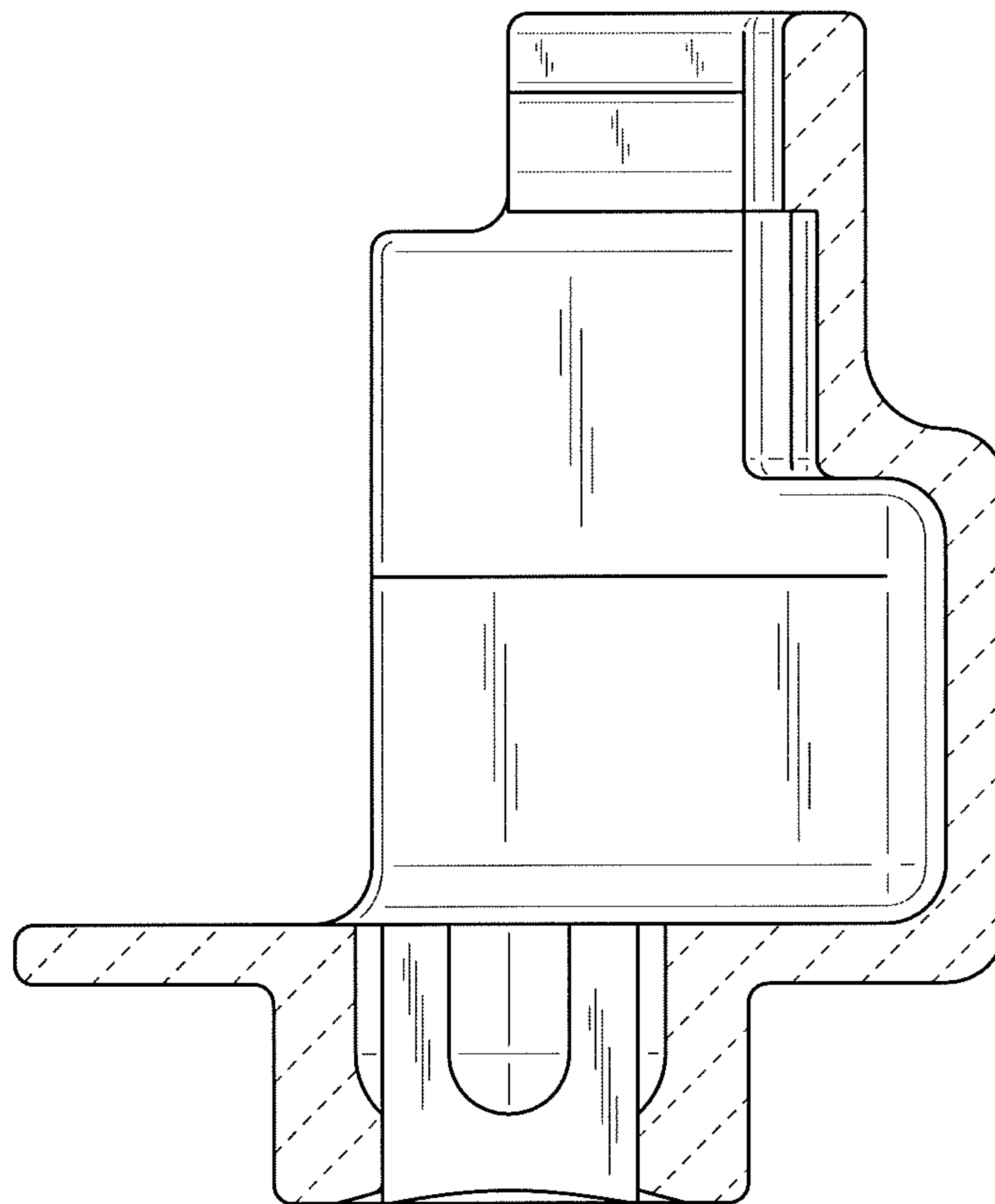


FIG. 6

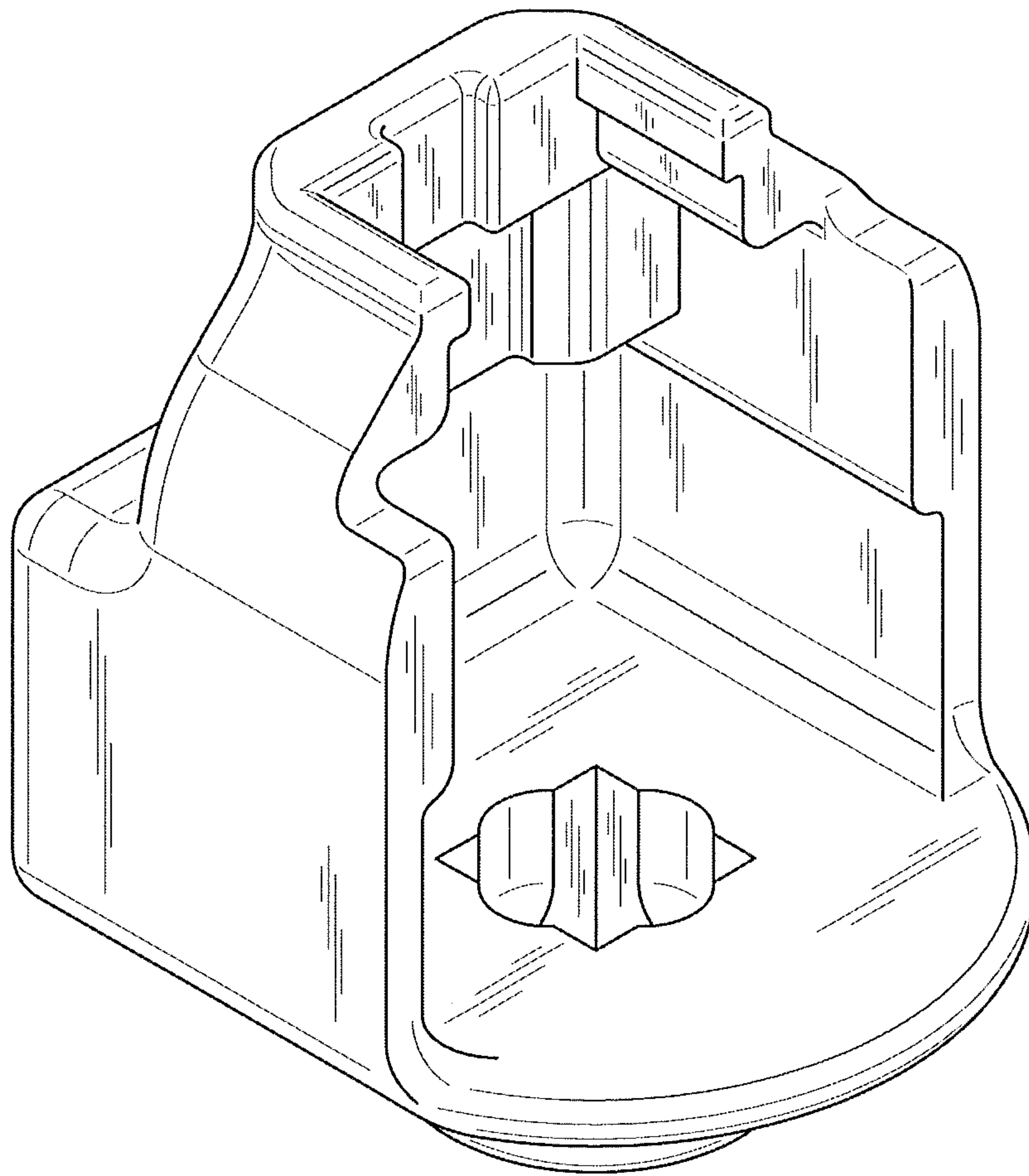


FIG. 7