



US00D459787S

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

(10) **Patent No.:** **US D459,787 S**

(45) **Date of Patent:** **\*\* Jul. 2, 2002**

(54) **BALL VALVE**

D359,103 S \* 6/1995 Bouc et al. .... D23/233

(75) Inventors: **Shigeo Kitazawa; Chikashi Gomi,**  
both of Kitakoma-gun (JP)

\* cited by examiner

(73) Assignee: **Kitz Corporation,** Chiba (JP)

*Primary Examiner*—Nelson C. Holtje  
(74) *Attorney, Agent, or Firm*—Wenderoth, Lind & Ponack,  
L.L.P.

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

(57) **CLAIM**

(21) Appl. No.: **29/144,884**

The ornamental design for a ball valve, as shown and described.

(22) Filed: **Jul. 13, 2001**

(51) **LOC (7) Cl.** ..... **23-01**

(52) **U.S. Cl.** ..... **D23/236**

(58) **Field of Search** ..... 137/412, 801;  
251/145, 152, 192, 309–310, 315, 366

**DESCRIPTION**

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D208,138 S	*	7/1967	Adams	.....	D23/245
D208,139 S	*	7/1967	Adams	.....	D23/245
D210,123 S	*	2/1968	Adams	.....	D23/245
D210,124 S	*	2/1968	Adams	.....	D23/245
3,401,916 A	*	9/1968	Scaramucci	.....	251/315.01 X
D219,777 S	*	1/1971	Meso	.....	D23/247
D253,365 S	*	11/1979	Nyberg	.....	D23/247
D297,254 S	*	8/1988	Odate et al.	.....	D23/248
D321,928 S	*	11/1991	Milo	.....	D23/245
5,232,200 A	*	8/1993	Combeau	.....	251/315.01

FIG. 1 is a perspective view of a ball valve when seen from the top and right side of the front, showing my new design; FIG. 2 is a front elevational view thereof; FIG. 3 is a top plan view thereof; FIG. 4 is a bottom plan view thereof; FIG. 5 is a right side elevational view thereof; FIG. 6 is a rear elevational view thereof; FIG. 7 is a left side elevational view thereof; FIG. 8 is a centrally longitudinally cross sectioned front view thereof; FIG. 9 is a centrally longitudinally cross sectioned side view thereof; and, FIG. 10 is a cross section taken across FIG. 2 along line X—X.

**1 Claim, 5 Drawing Sheets**

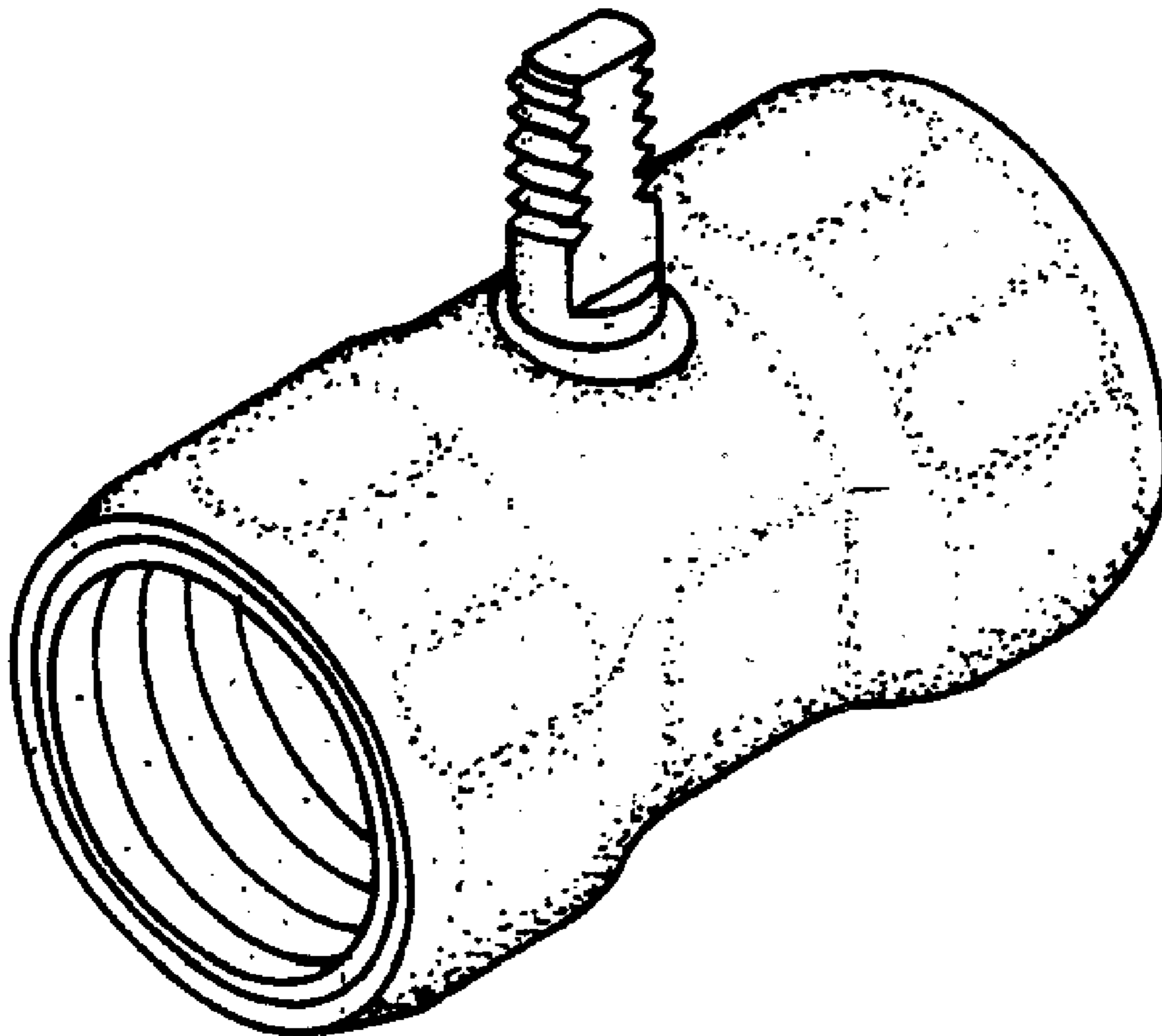


FIG. 1

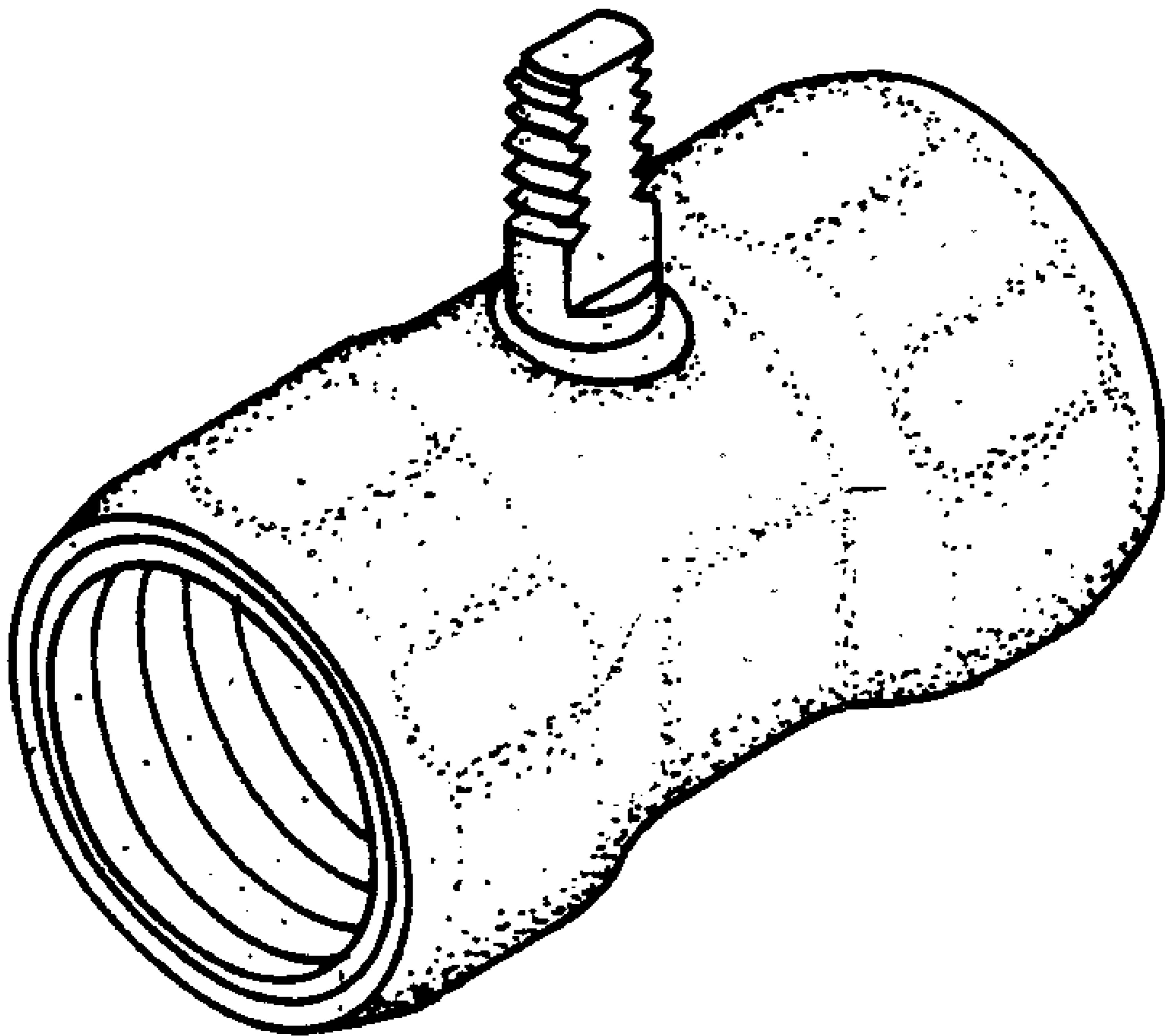


FIG. 2

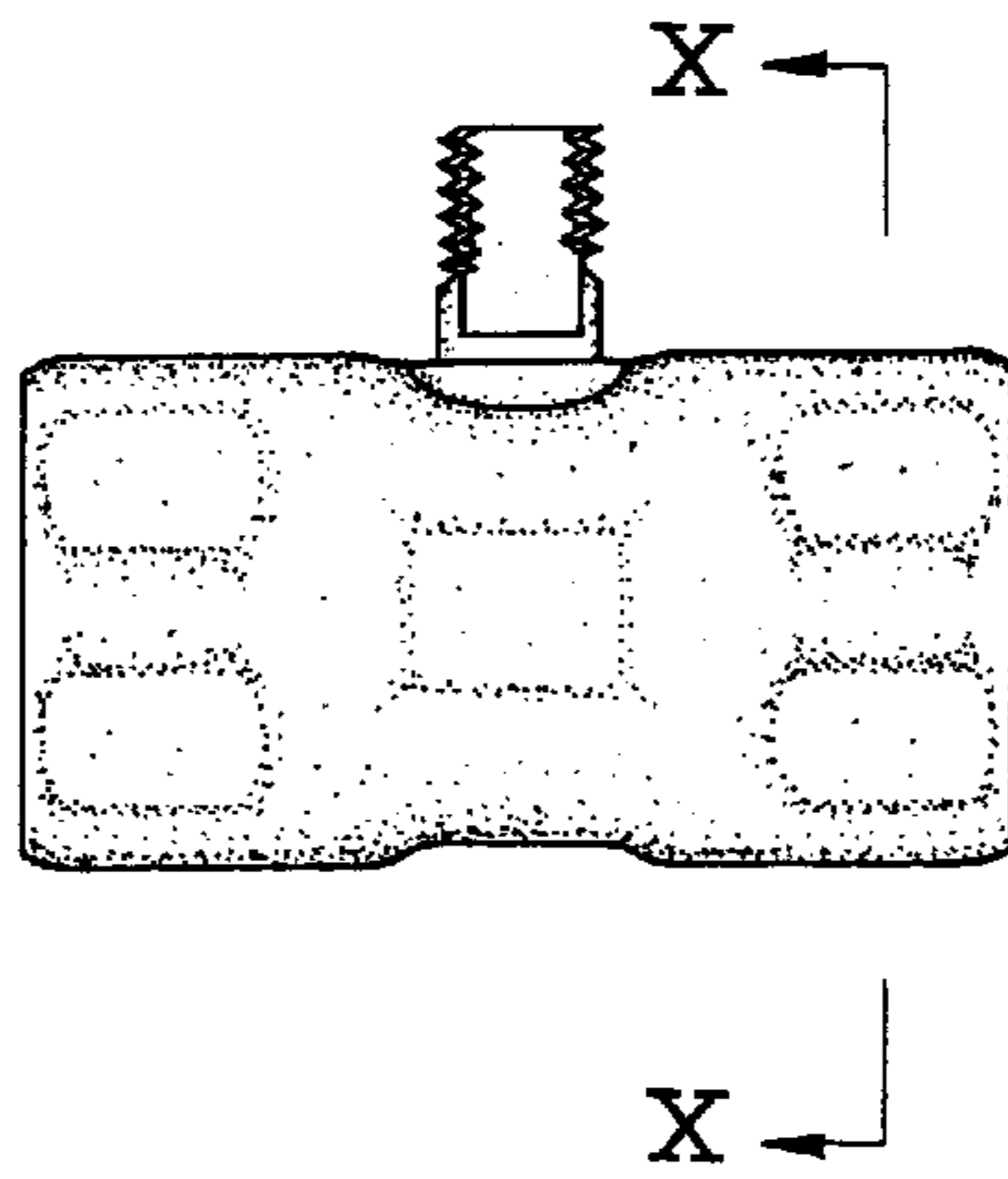


FIG. 3

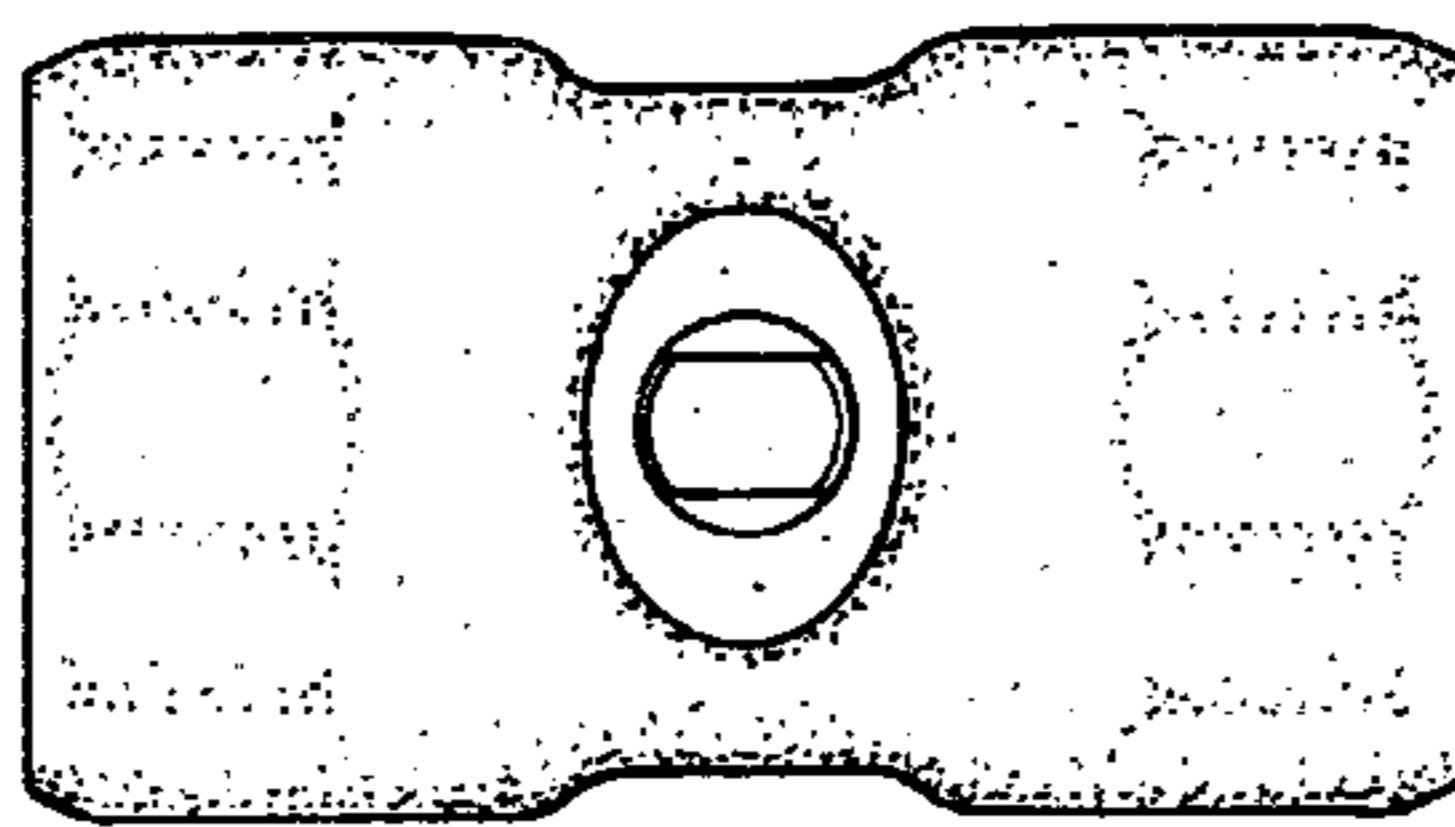


FIG. 4

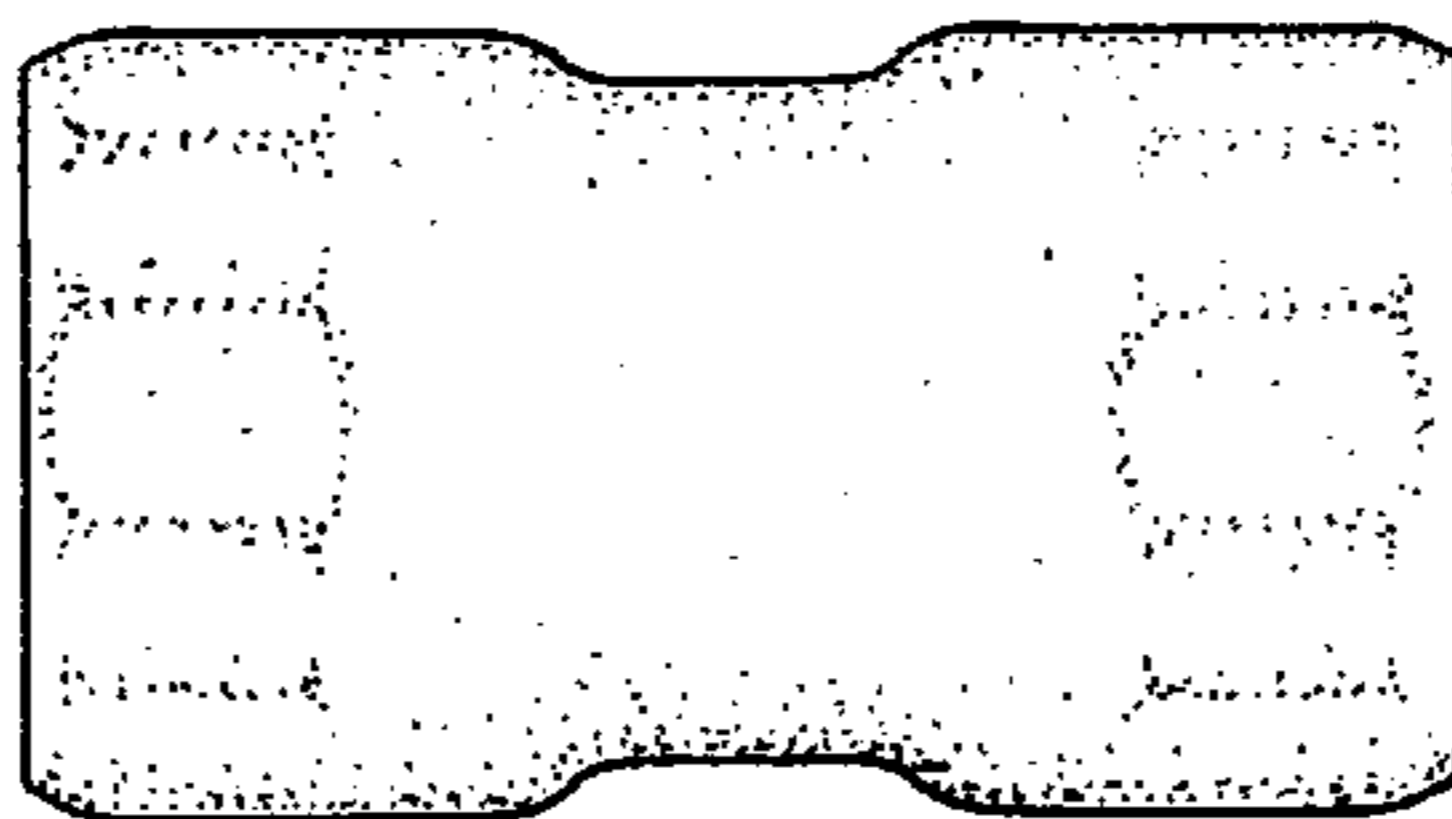


FIG. 5

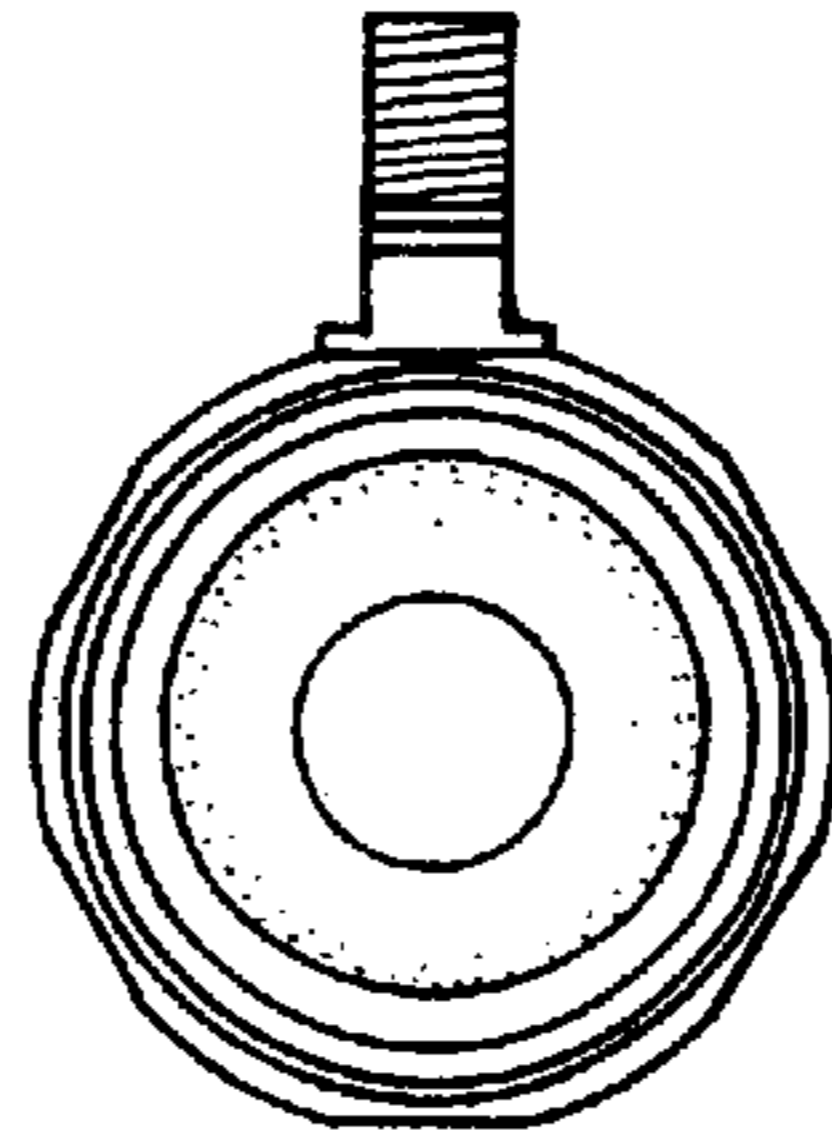


FIG. 6

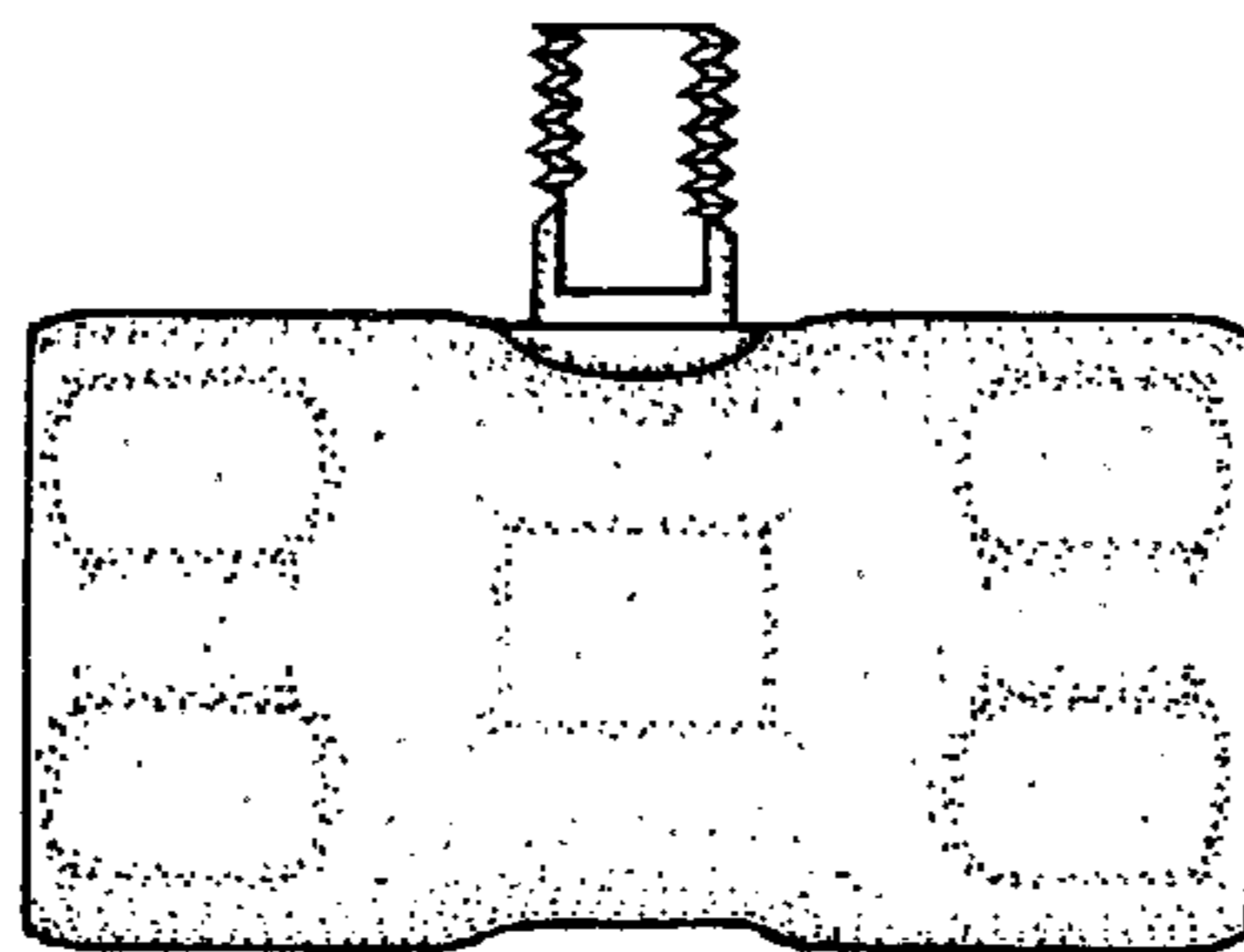


FIG. 7

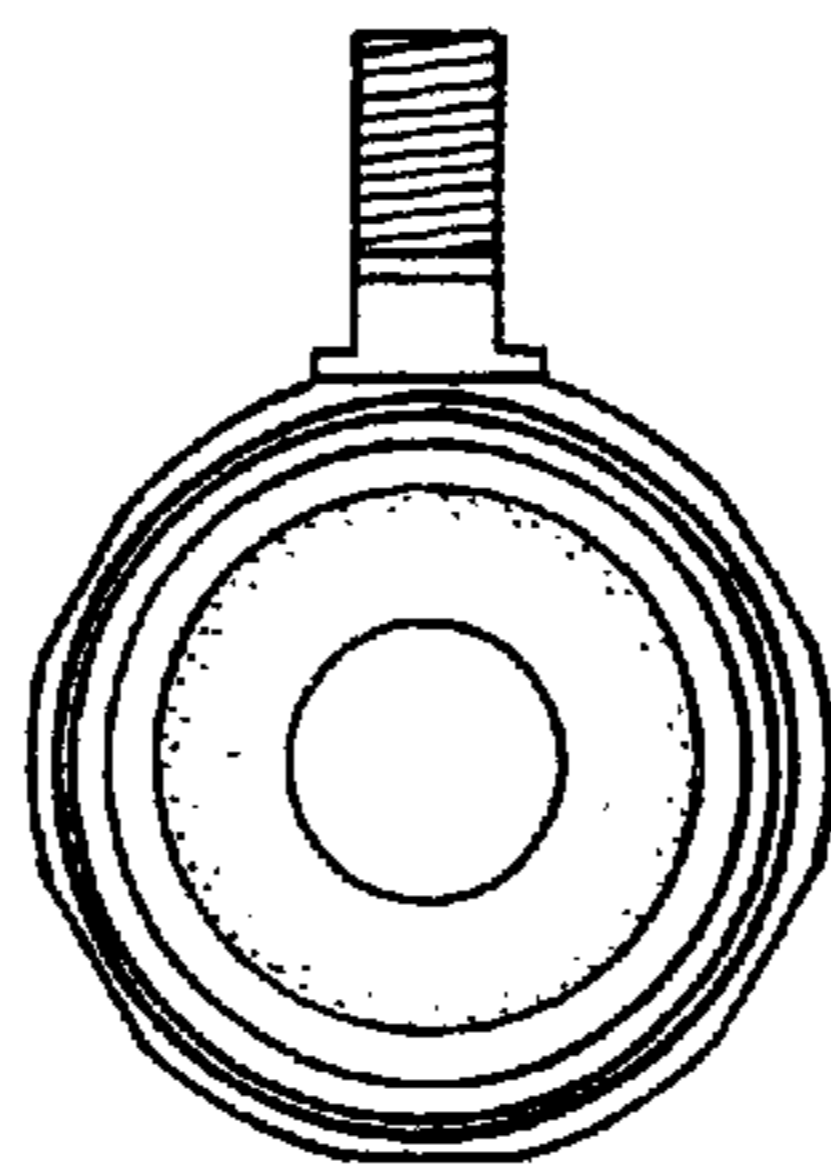


FIG. 8

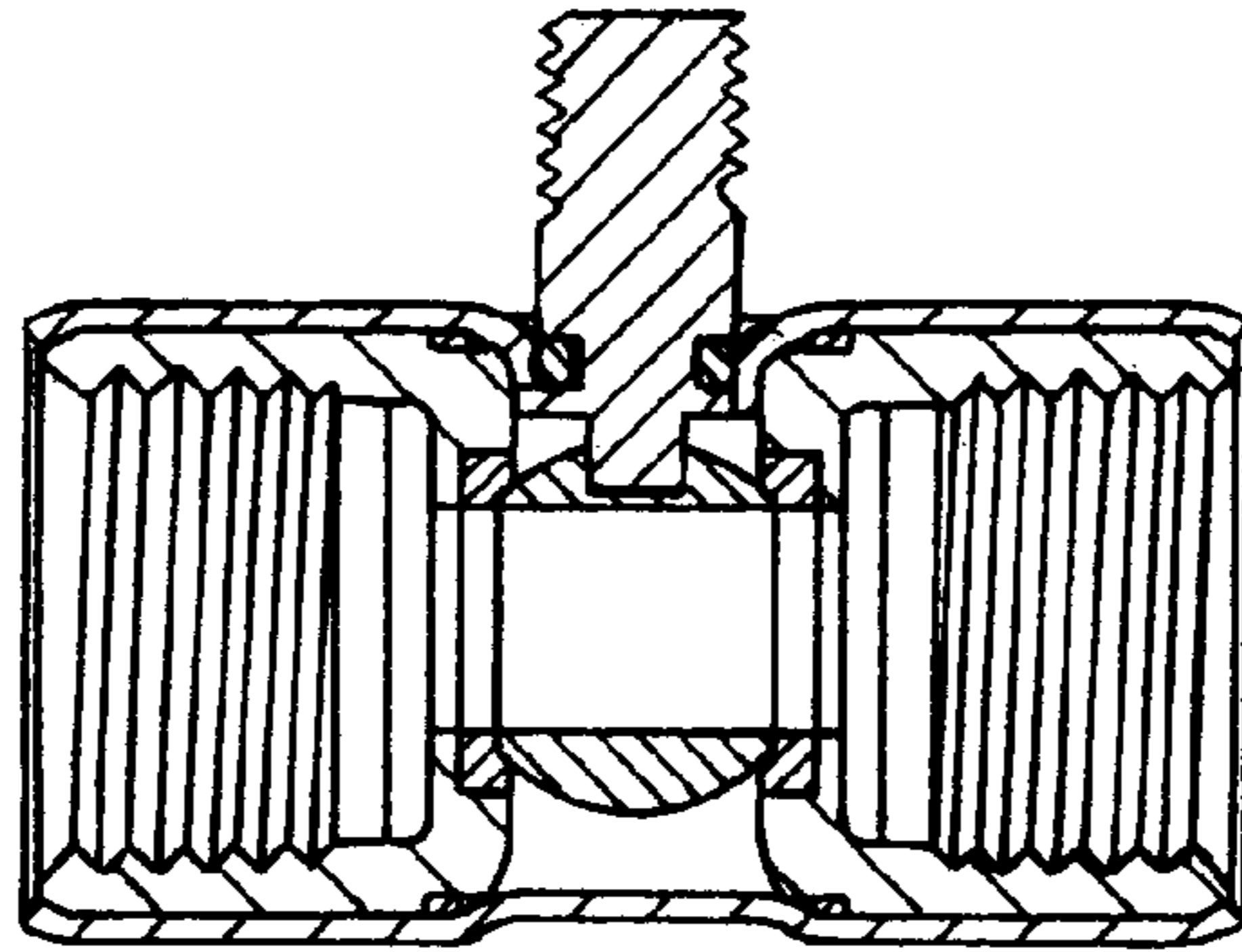


FIG. 9

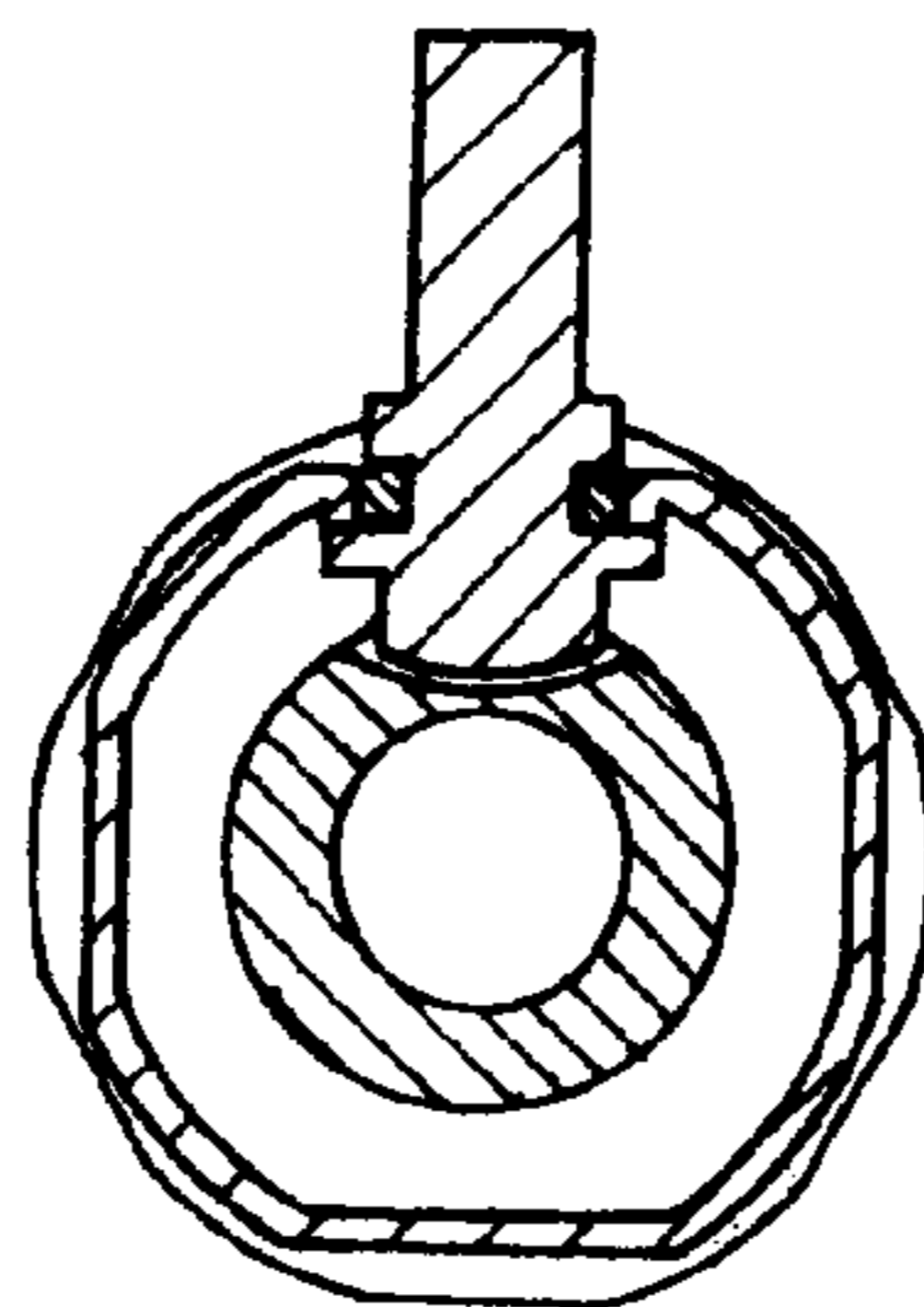


FIG. 10

