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(12) **United States Design Patent** (10) **Patent No.:** **US D450,060 S**
Miyazawa et al. (45) **Date of Patent:** **** Nov. 6, 2001**

(54) **PISTONS FOR A REFRIGERANT COMPRESSOR**

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(57) **CLAIM**

The ornamental design for a piston for a refrigerant compressor, as shown and described.

(73) Assignee: **Sanden Corporation**, Gunma (JP)

DESCRIPTION

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

FIG. 1 is a left side view of a piston for a refrigerant compressor, according to the design. The right side view is a mirror image of the left side view.

(21) Appl. No.: **29/125,168**

FIG. 2 is a front view of the piston for a refrigerant compressor, as shown in FIG. 1.

(22) Filed: **Jun. 20, 2000**

FIG. 3 is a top view of the piston for a refrigerant compressor, as shown in FIG. 1.

(30) **Foreign Application Priority Data**

Dec. 20, 1999 (JP) 11-35058

FIG. 4 is a bottom view of the piston for a refrigerant compressor, as shown in FIG. 1.

(51) **LOC (7) Cl.** **15-02**

FIG. 5 is a rear view of the piston for a refrigerant compressor, as shown in FIG. 1.

(52) **U.S. Cl.** **D15/9**

(58) **Field of Search** D15/5-9; 417/545, 417/222.1, 266, 269, 273; 91/505; 92/71, 12.2, 165.2; 74/60

FIG. 6 is a cross-sectional view of a refrigerant compressor taken along the line 6—6 of FIG. 1;

FIG. 7 is a cross-sectional view of the refrigerant compressor taken along the line 7—7 of FIG. 1;

(56) **References Cited**

U.S. PATENT DOCUMENTS

- D. 402,295 * 12/1998 Kayukawa et al. D15/9
- D. 417,225 * 11/1999 Kimura et al. D15/5
- D. 417,876 * 12/1999 Kayukawa et al. D15/9
- D. 427,611 * 7/2000 Yokota et al. D15/9
- D. 428,423 * 7/2000 Takamatsu et al. D15/9
- D. 435,563 * 12/2000 Muraro et al. D15/9

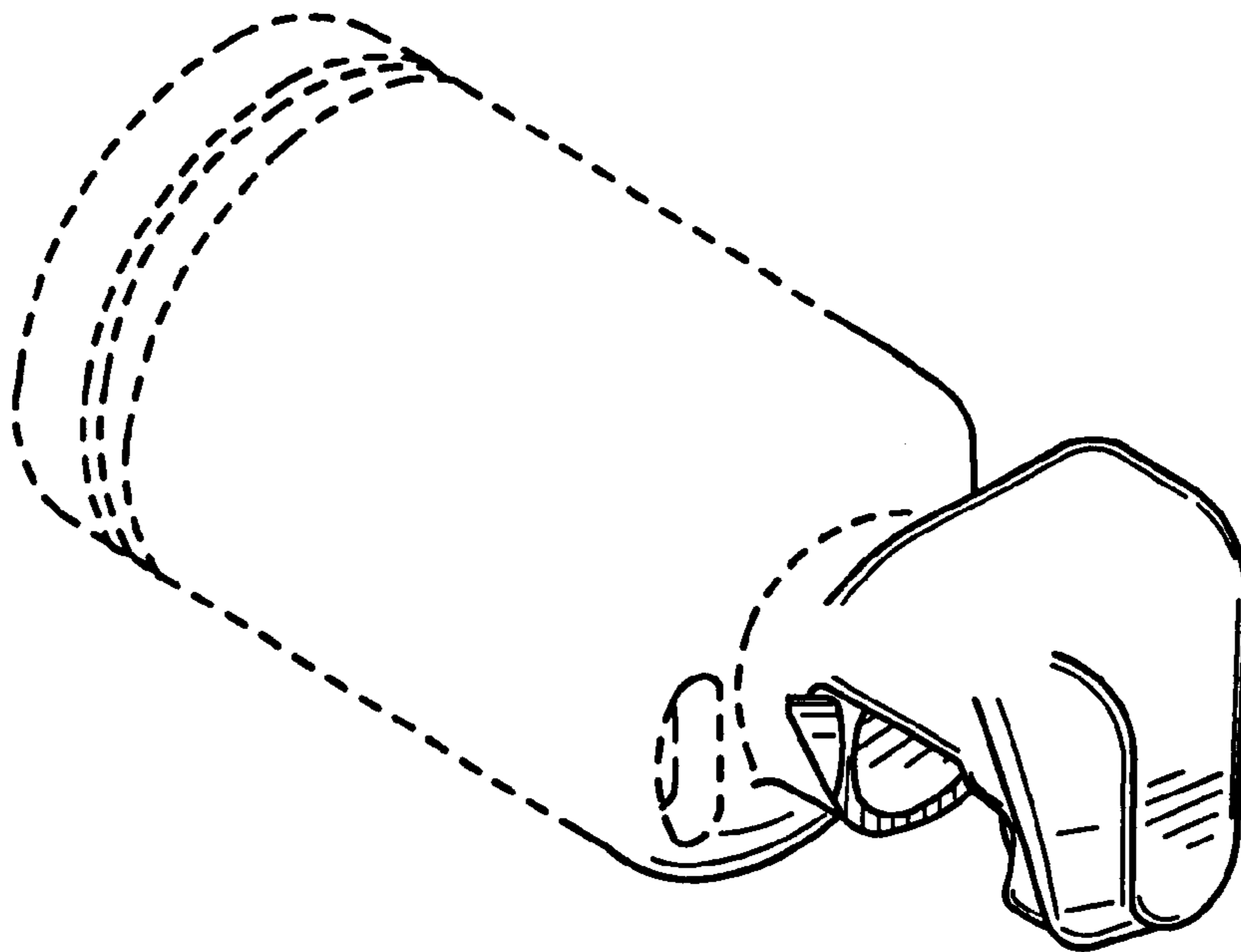
FIG. 8 is a cross-sectional view of the refrigerant compressor taken along the line 8—8 of FIG. 1; and,

FIG. 9 is a rear perspective view of the piston for a refrigerant compressor of FIG. 1.

The broken line immediately next to the structure line represents the bounds of the design. All other broken line matter represents environment. None of the broken lines form any part of the claimed design.

* cited by examiner

1 Claim, 3 Drawing Sheets



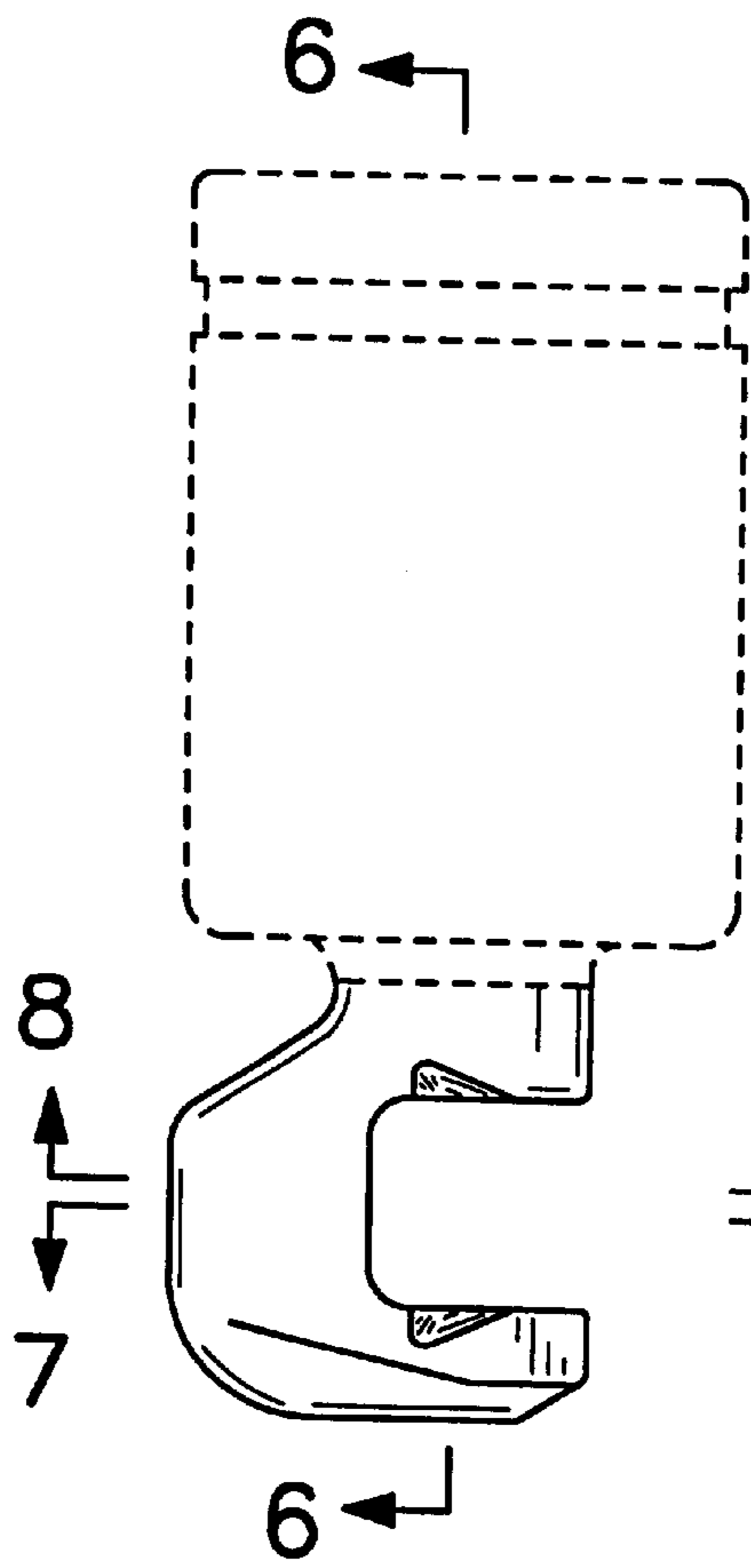


FIG. 1

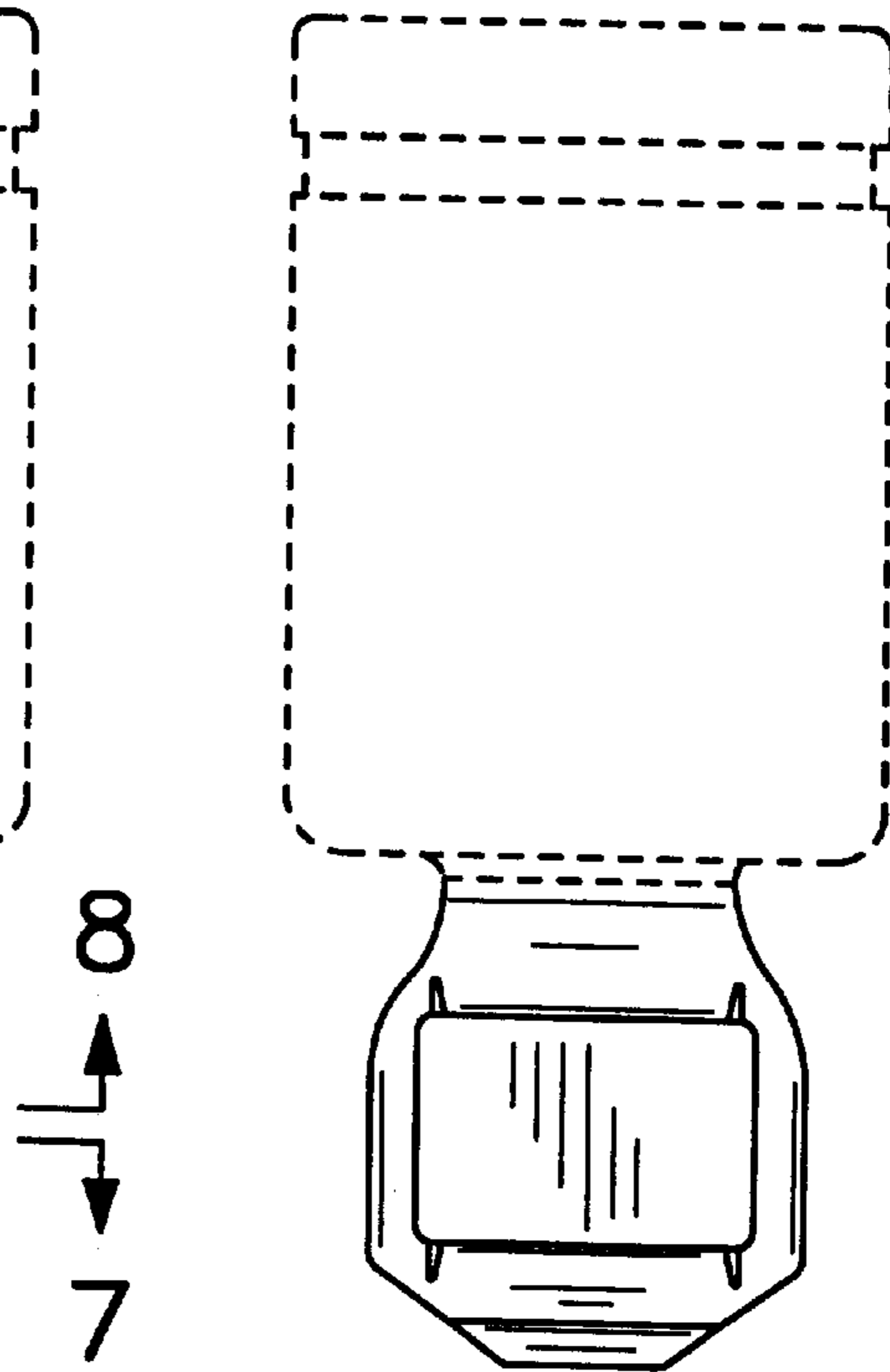


FIG. 2

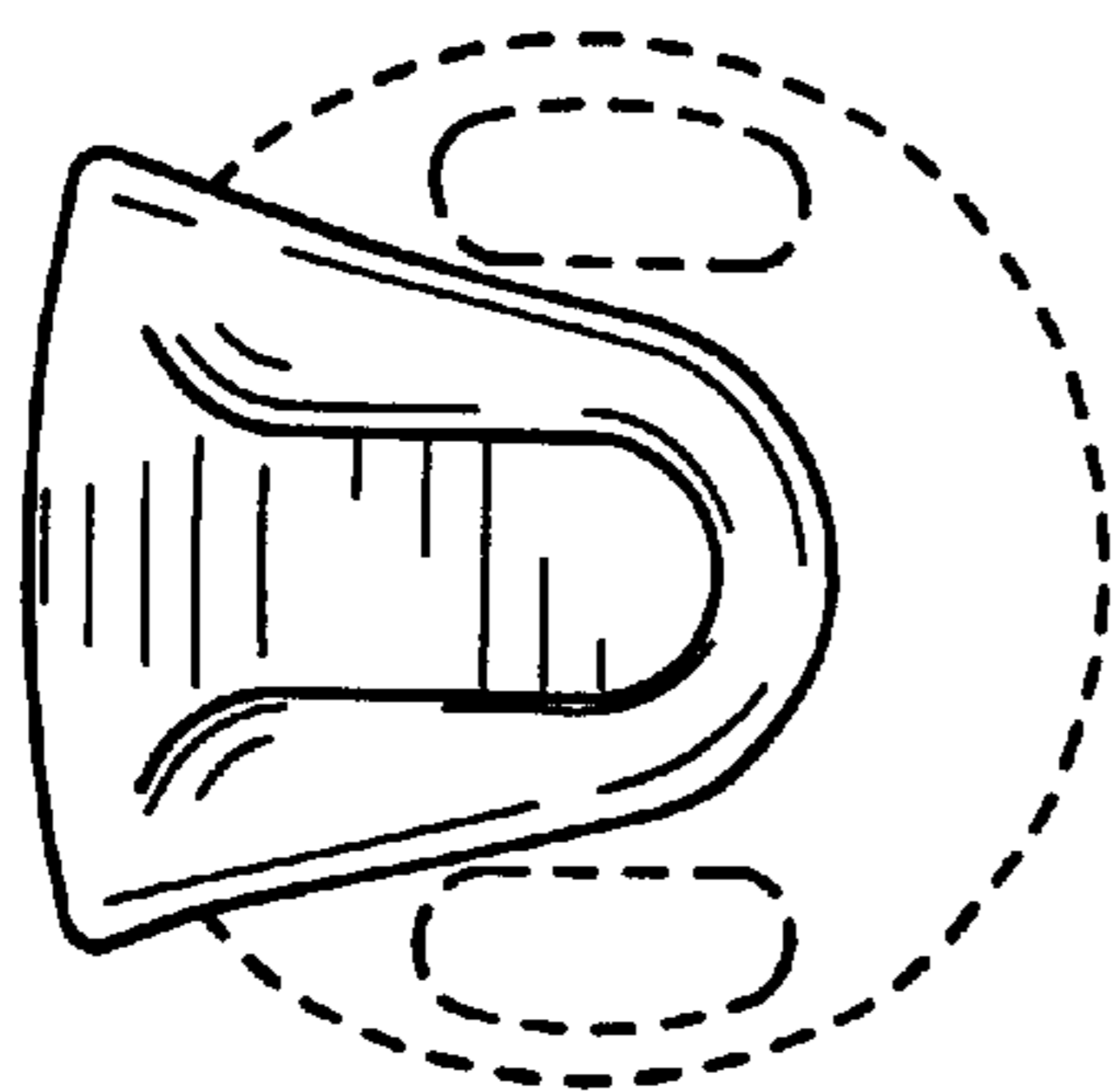


FIG. 3

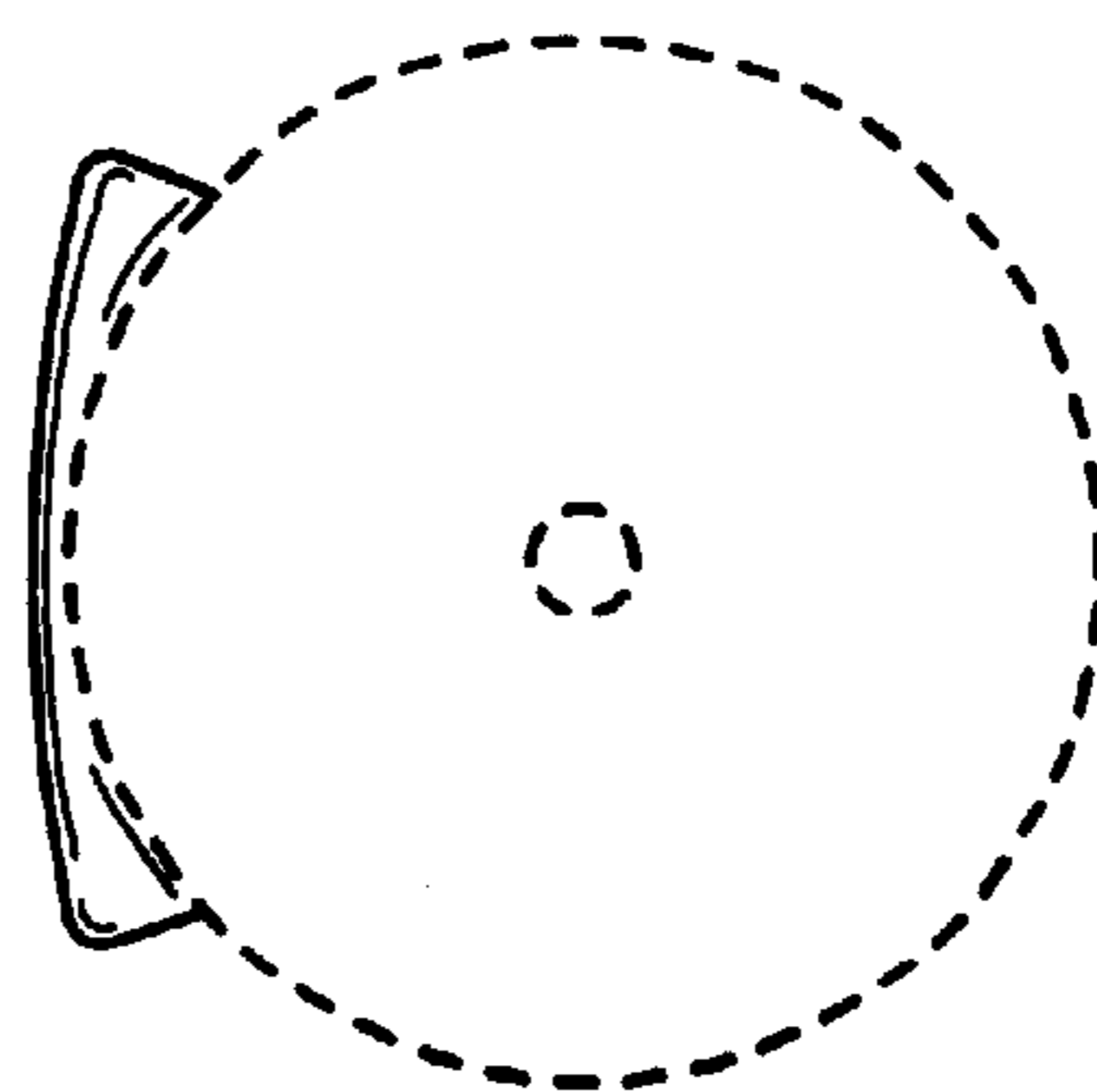


FIG. 4

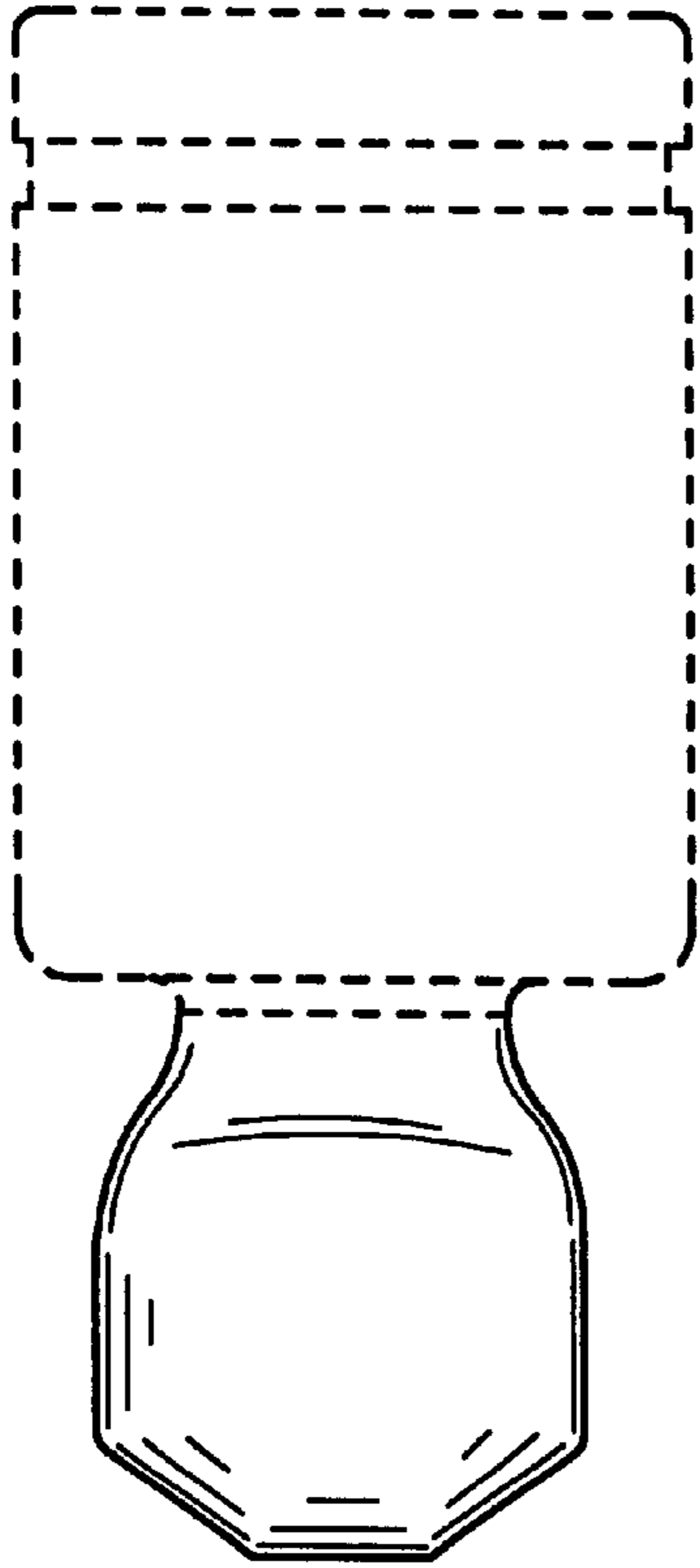


FIG. 5

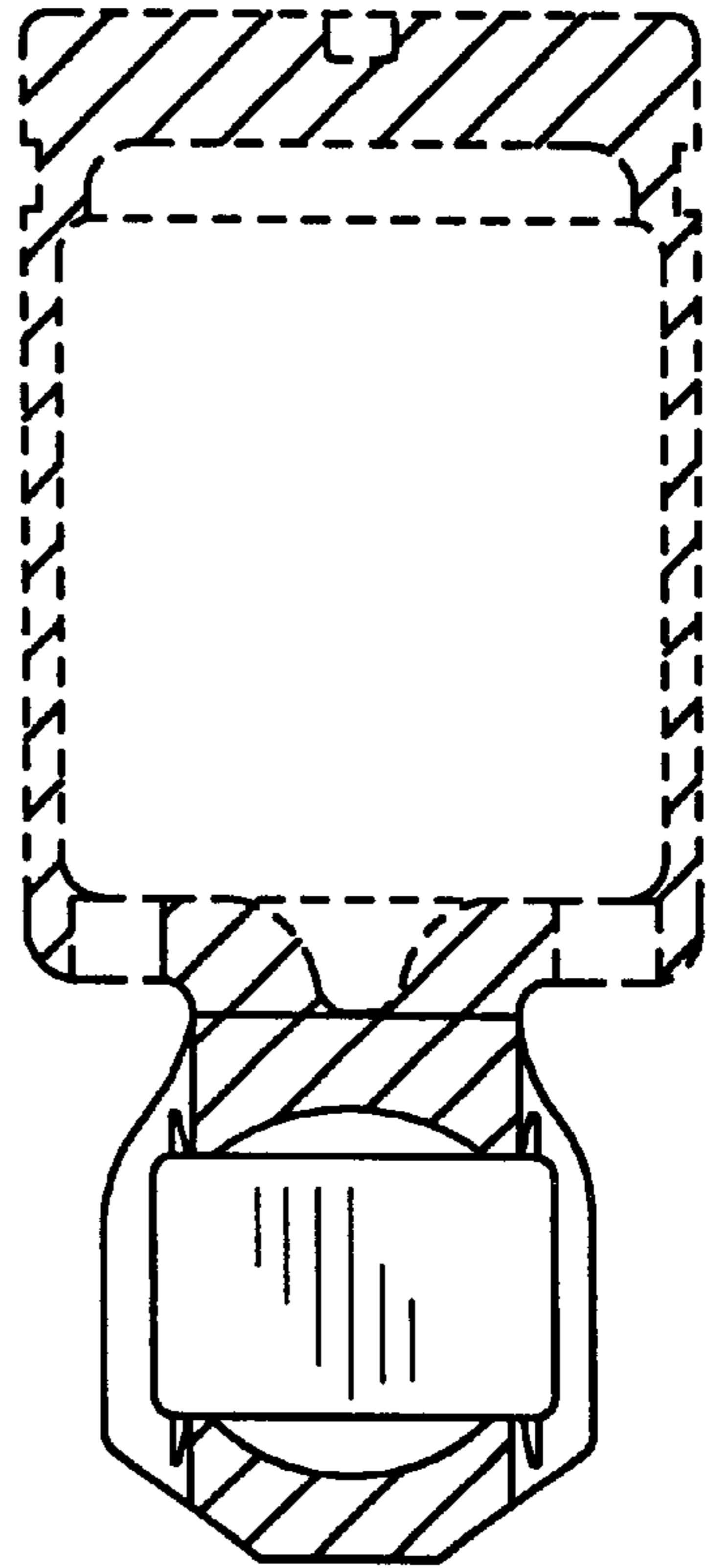


FIG. 6

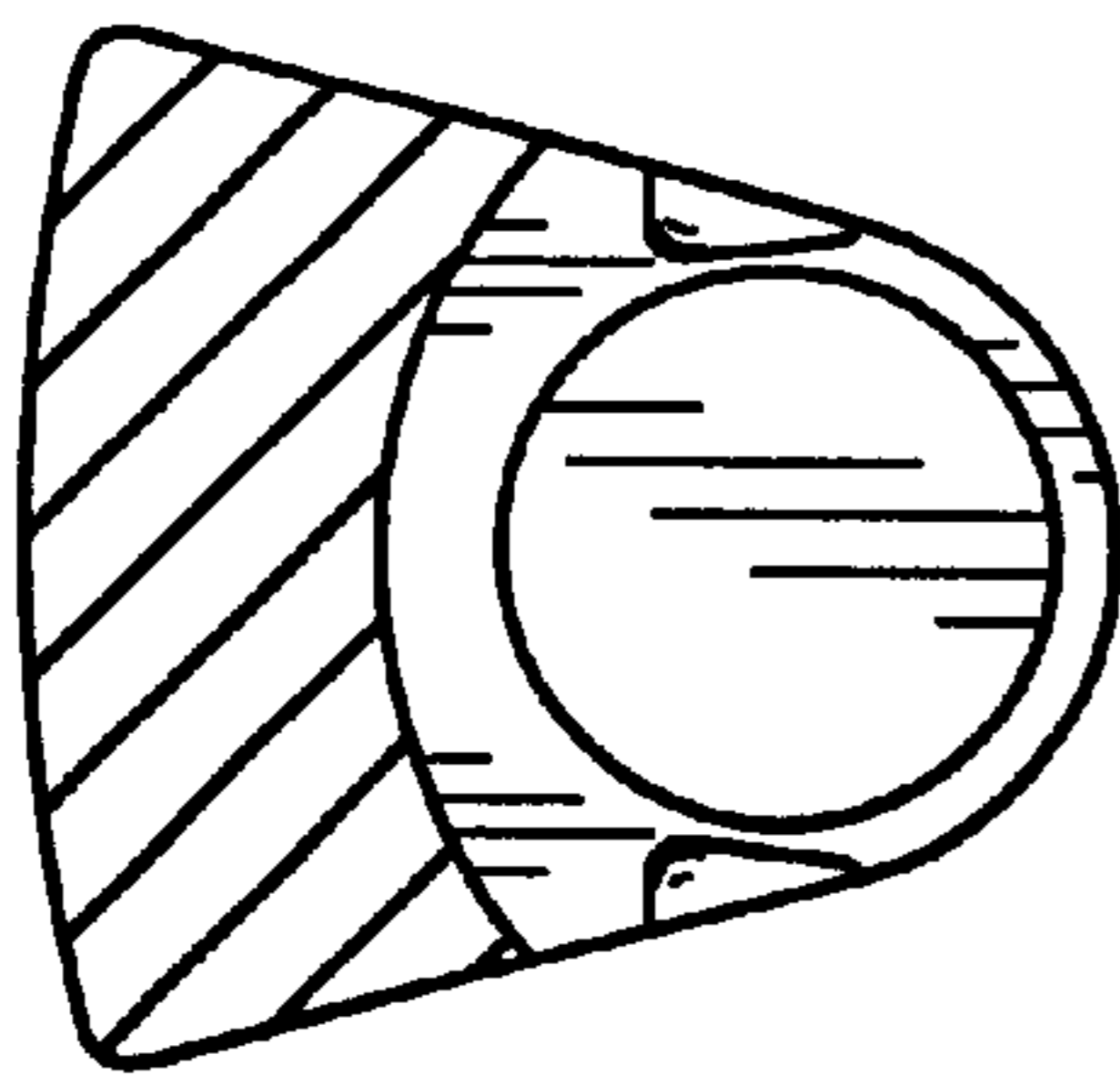


FIG. 7

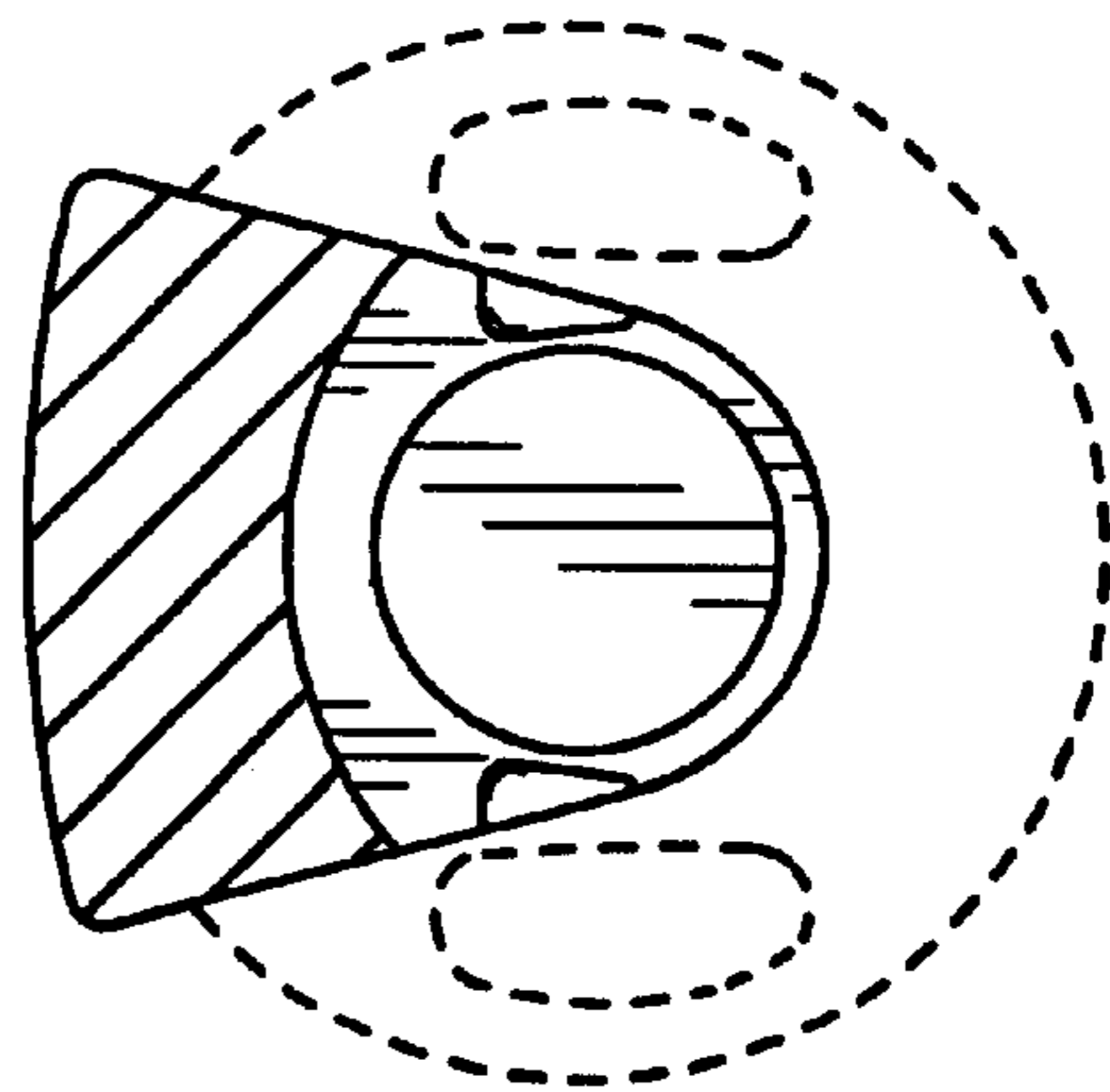


FIG. 8

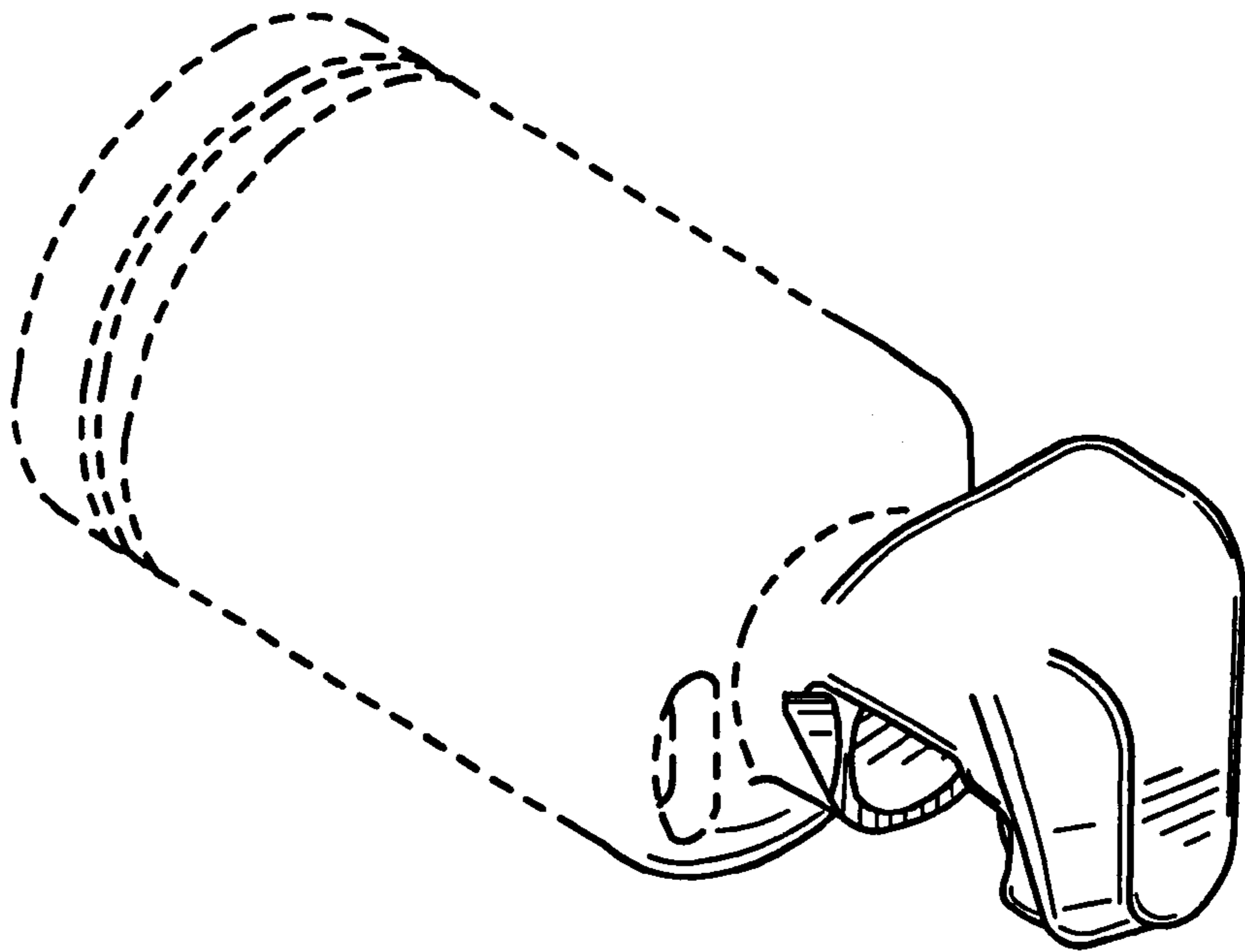


FIG. 9