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# United States Patent [19]

Takamatsu et al.

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[54] PISTON FOR COMPRESSORS EMPLOYED IN AUTOMOBILE AIR-CONDITIONERS

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[\*\*] Term: 14 Years

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### [30] Foreign Application Priority Data

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[52] U.S. Cl. .... D15/9

[58] Field of Search ..... D15/7-9; 417/545, 417/222.1, 209, 266, 273, 269; 91/505; 92/71, 165 R; 74/60

### [56] References Cited

#### U.S. PATENT DOCUMENTS

- D. 402,295 12/1998 Kayukawa et al. .... D15/9
- D. 417,225 11/1999 Kinura et al. .... D15/5
- D. 417,876 12/1999 Kayukawa et al. .... D15/9
- 5,461,967 10/1995 Burkett et al. .... 97/71
- 5,490,767 2/1996 Kanou et al. .... 417/222.1

#### FOREIGN PATENT DOCUMENTS

07189900 7/1995 Japan .

9-203378 8/1997 Japan .

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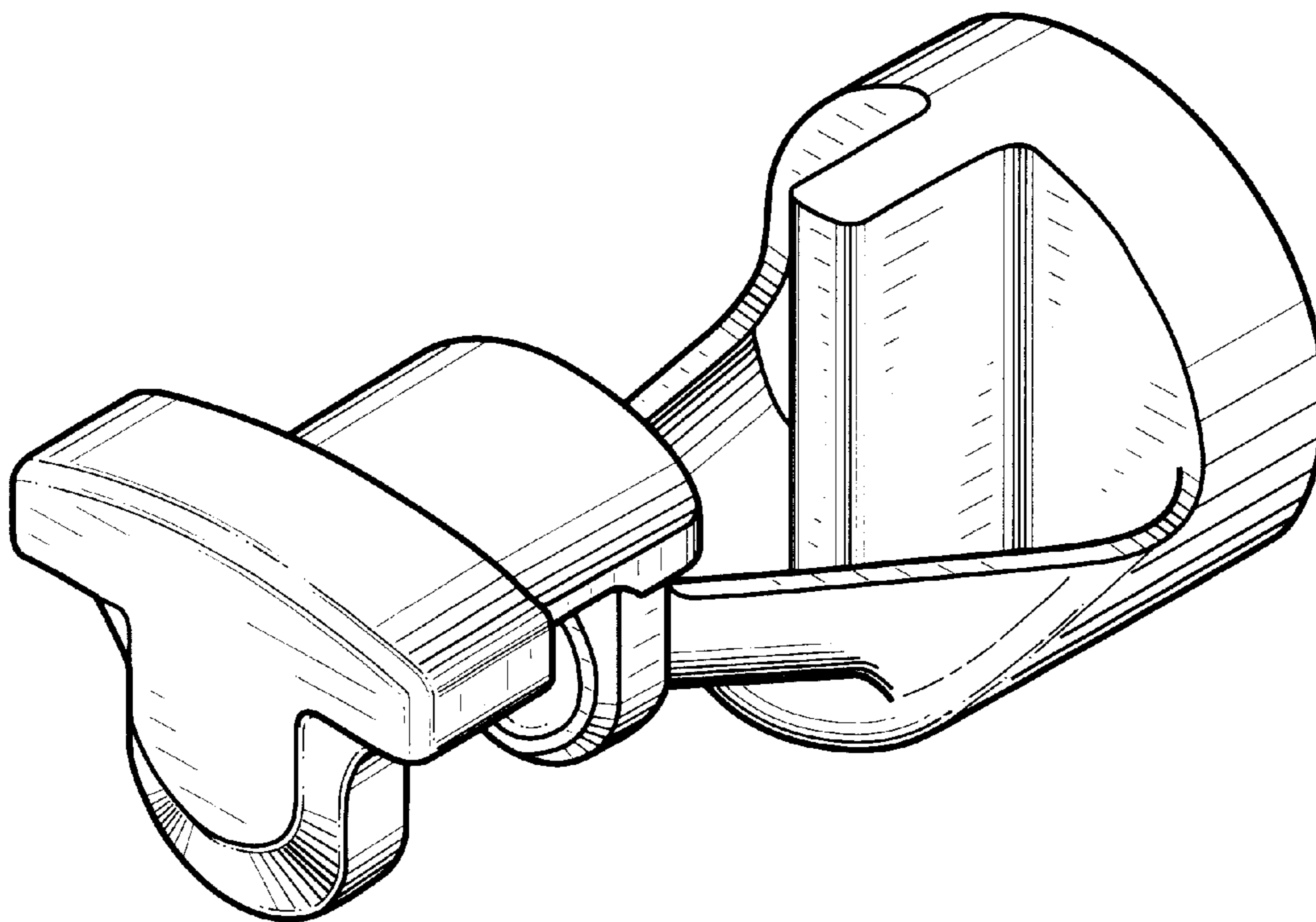
### [57] CLAIM

The ornamental design for a piston for compressors employed in automobile air-conditioners, as shown and described.

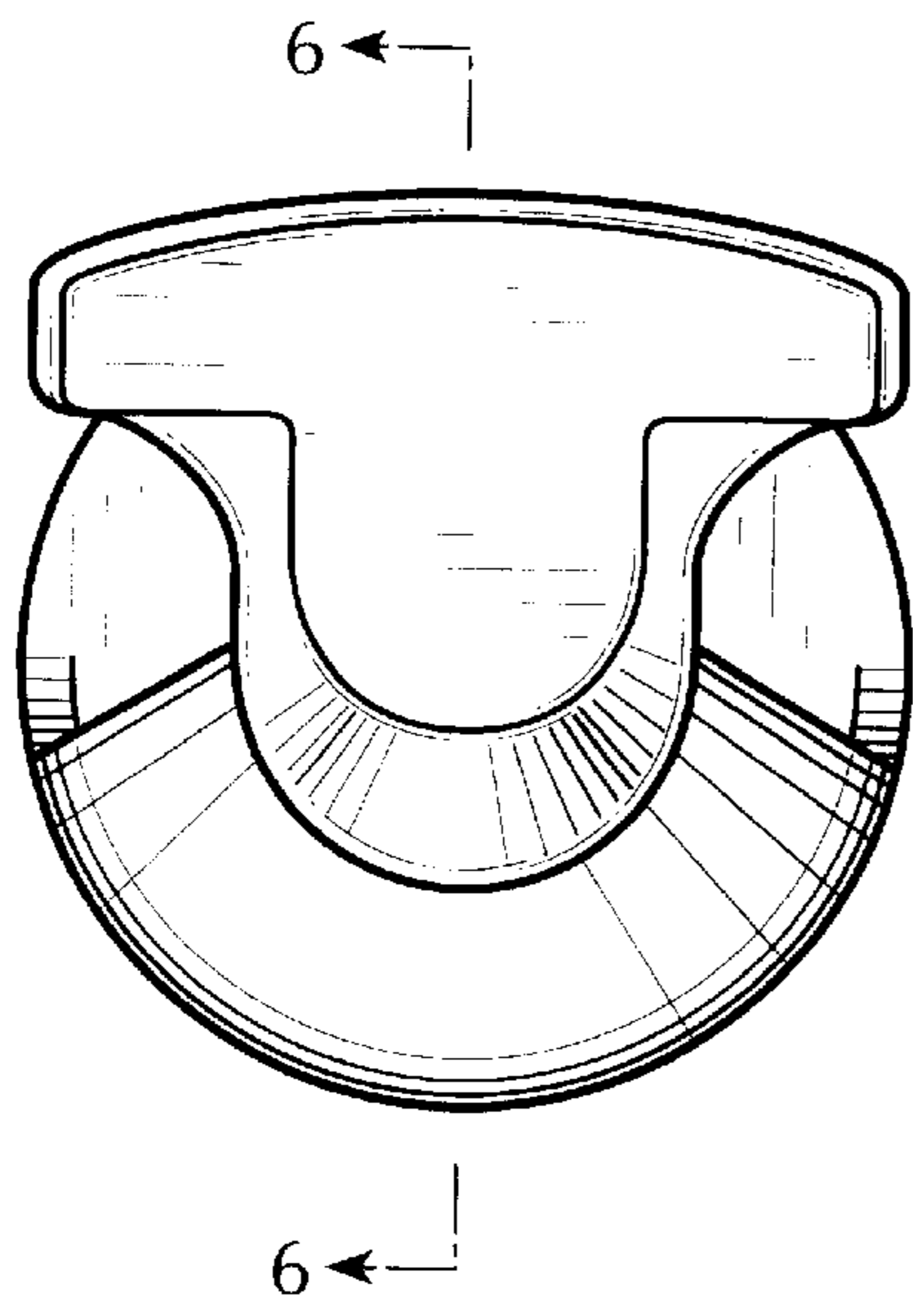
### DESCRIPTION

FIG. 1 is a front elevational view showing a piston for compressors employed in automobile air-conditioners; FIG. 2 is a rear elevational view showing the piston of FIG. 1; FIG. 3 is a top plan view showing the piston of FIG. 1; FIG. 4 is a bottom plan view showing the piston of FIG. 1; FIG. 5 is a right side elevational view showing the piston of FIG. 1, the left side view being a mirror image thereof; FIG. 6 is a cross-sectional view taken along line 6—6 of FIG. 1; FIG. 7 is a cross-sectional view taken along line 7—7 of FIG. 5; FIG. 8 is a cross-sectional view taken along line 8—8 of FIG. 5; FIG. 9 is a perspective view showing the piston of FIG. 1; and, FIG. 10 is a cross-sectional view showing a piston according to the present invention employed in a compressor. The broken lines in FIG. 10 are shown for illustrative purposes only and form no part of the claimed design.

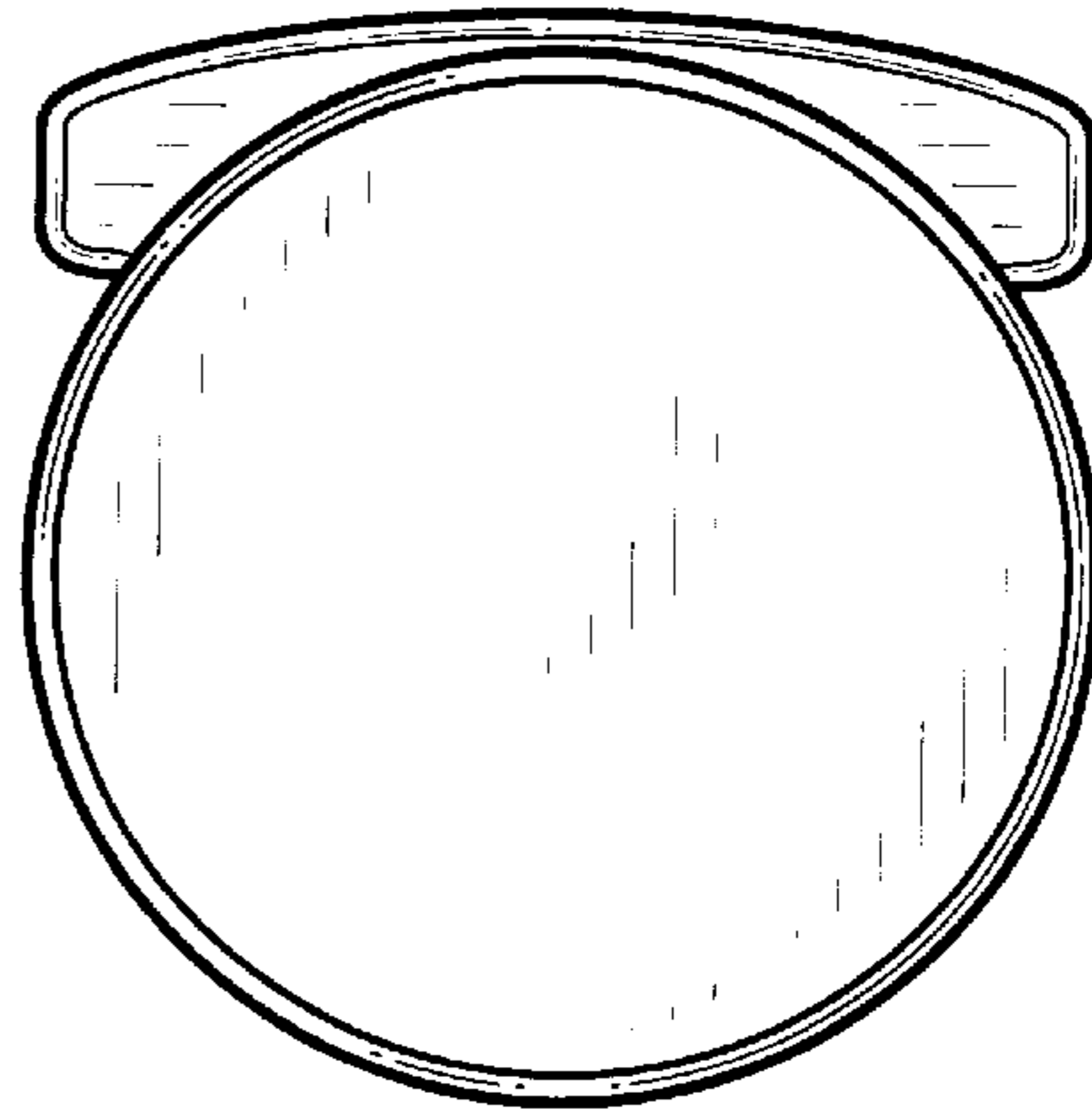
1 Claim, 4 Drawing Sheets



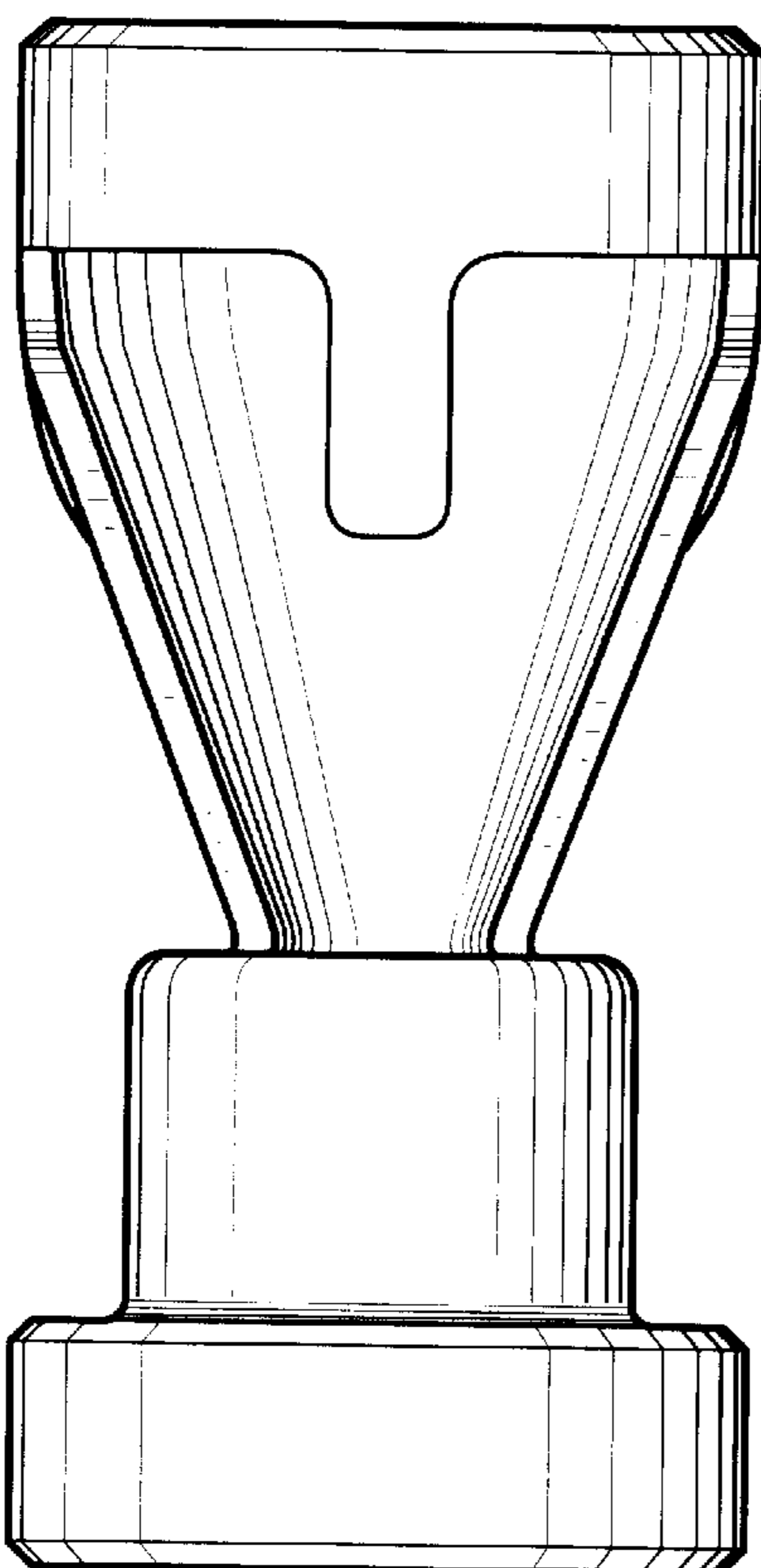
**FIG. 1**



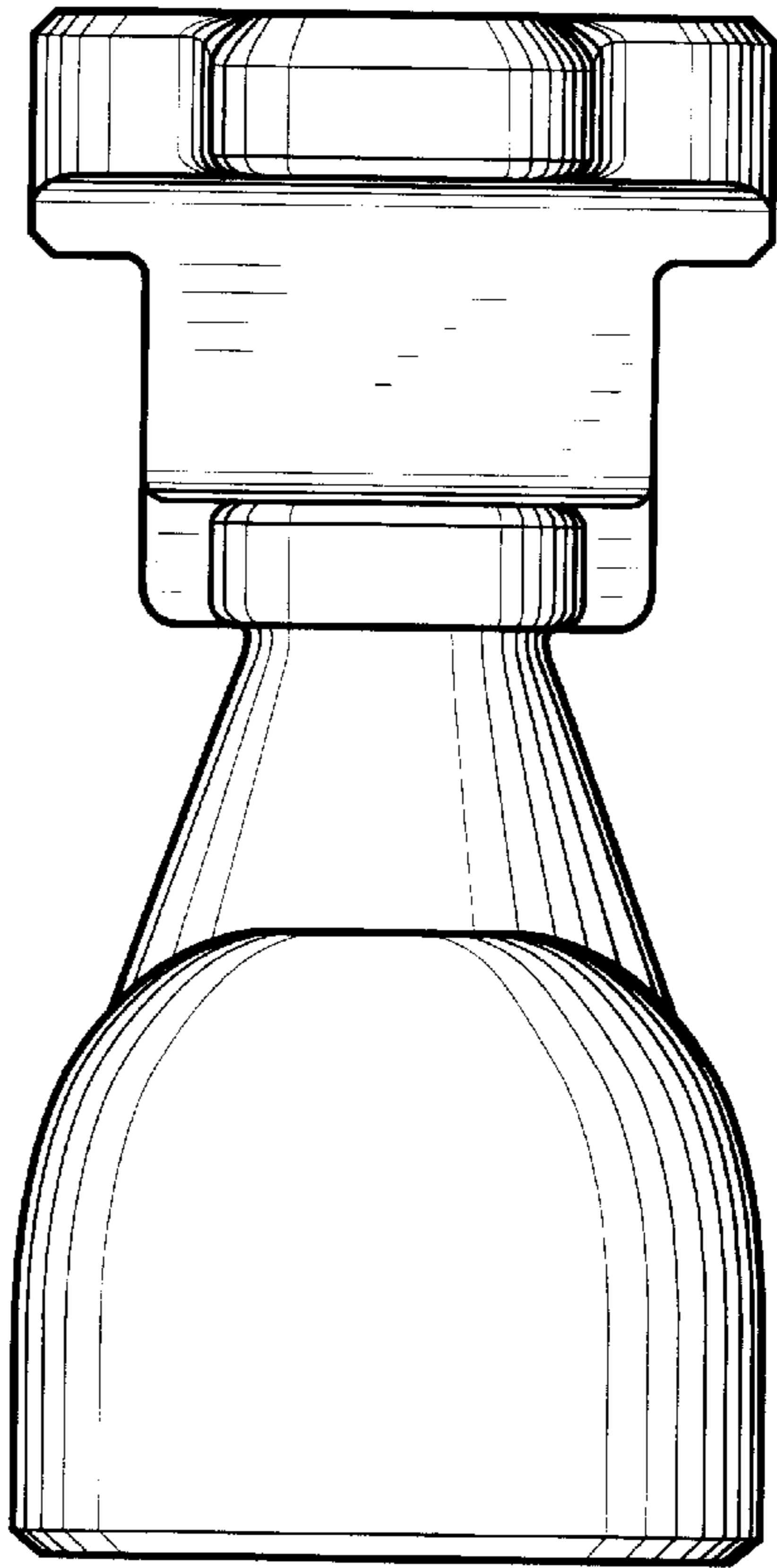
**FIG. 2**



**FIG. 3**



**FIG. 4**



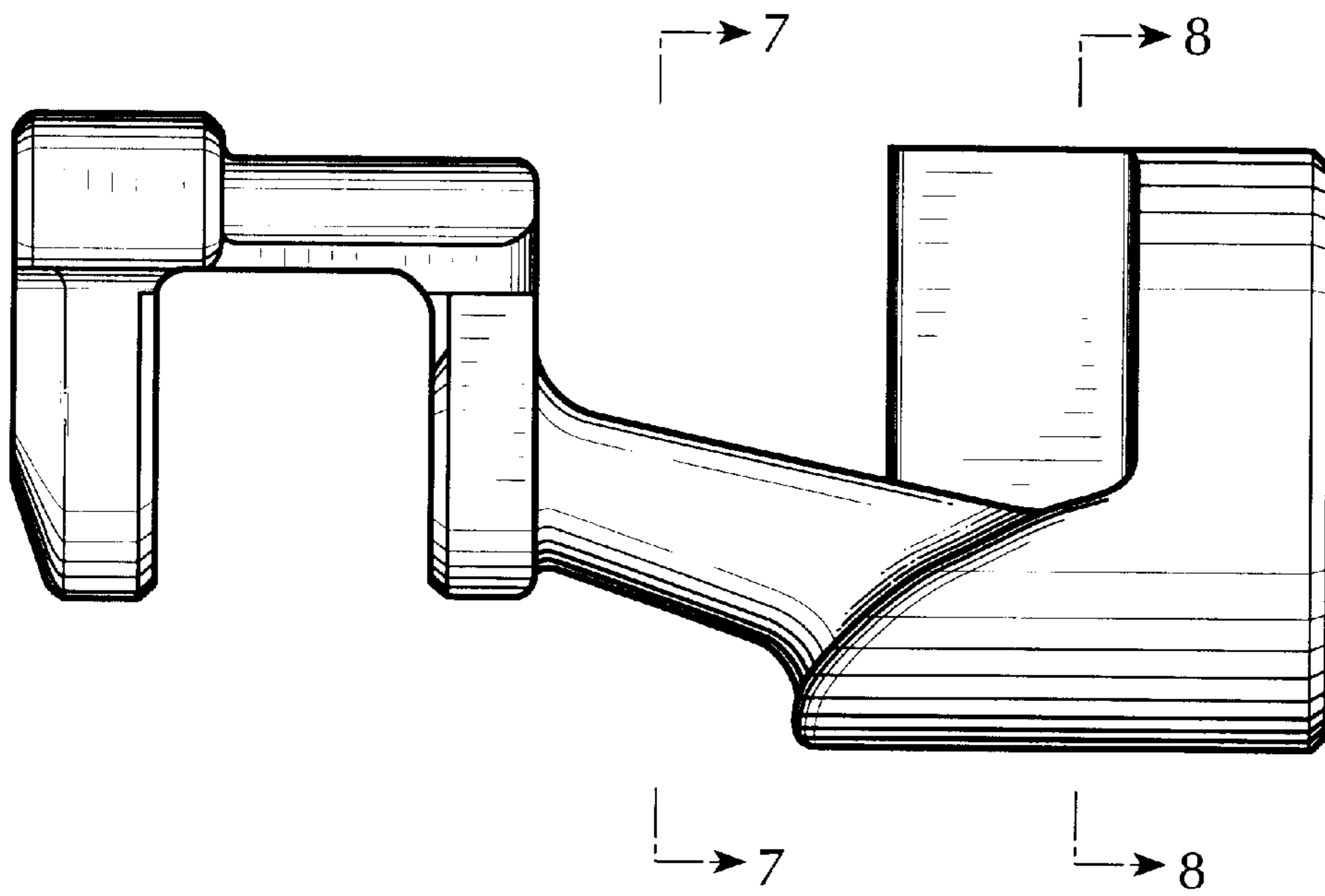


FIG. 5

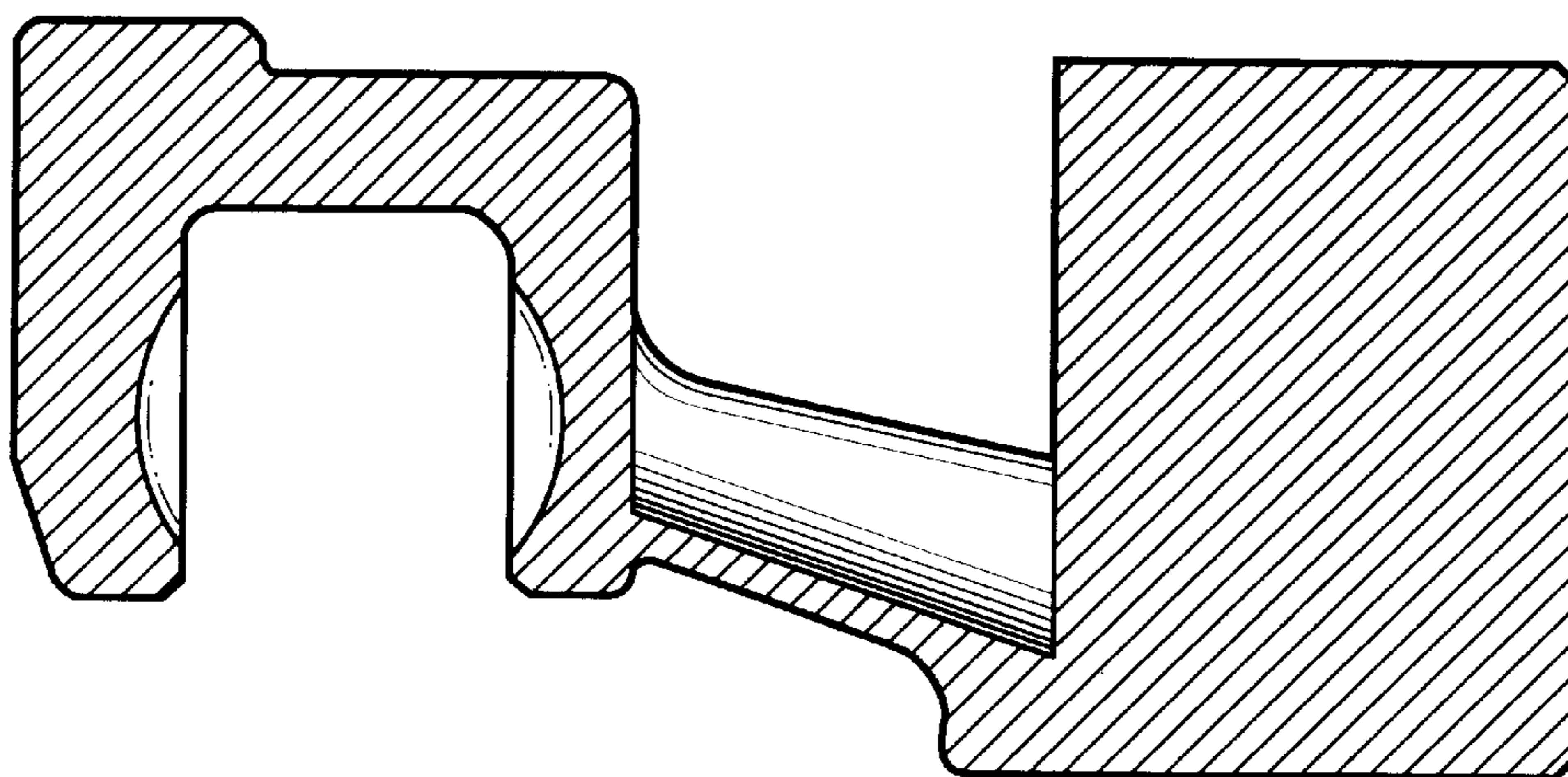
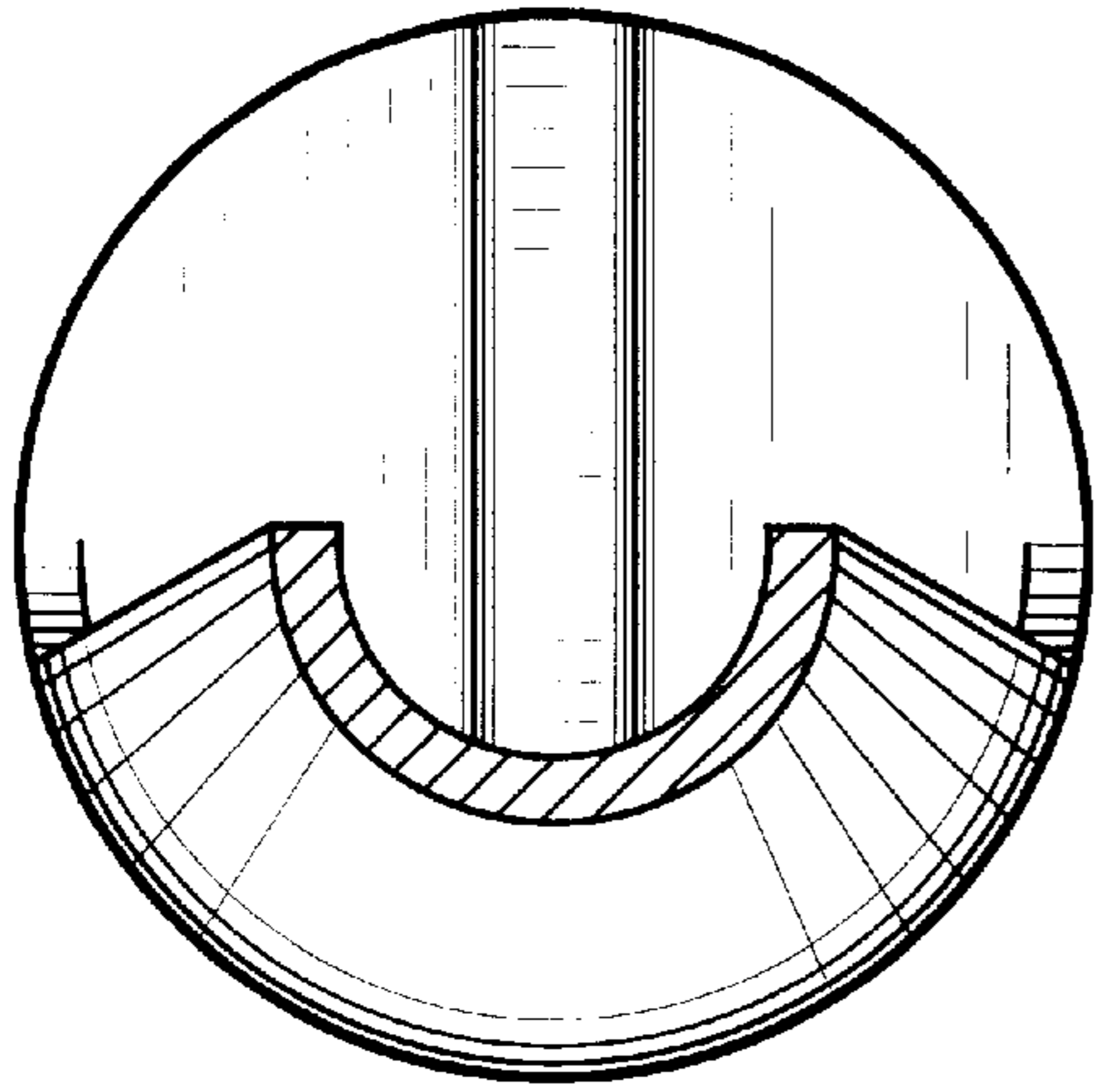
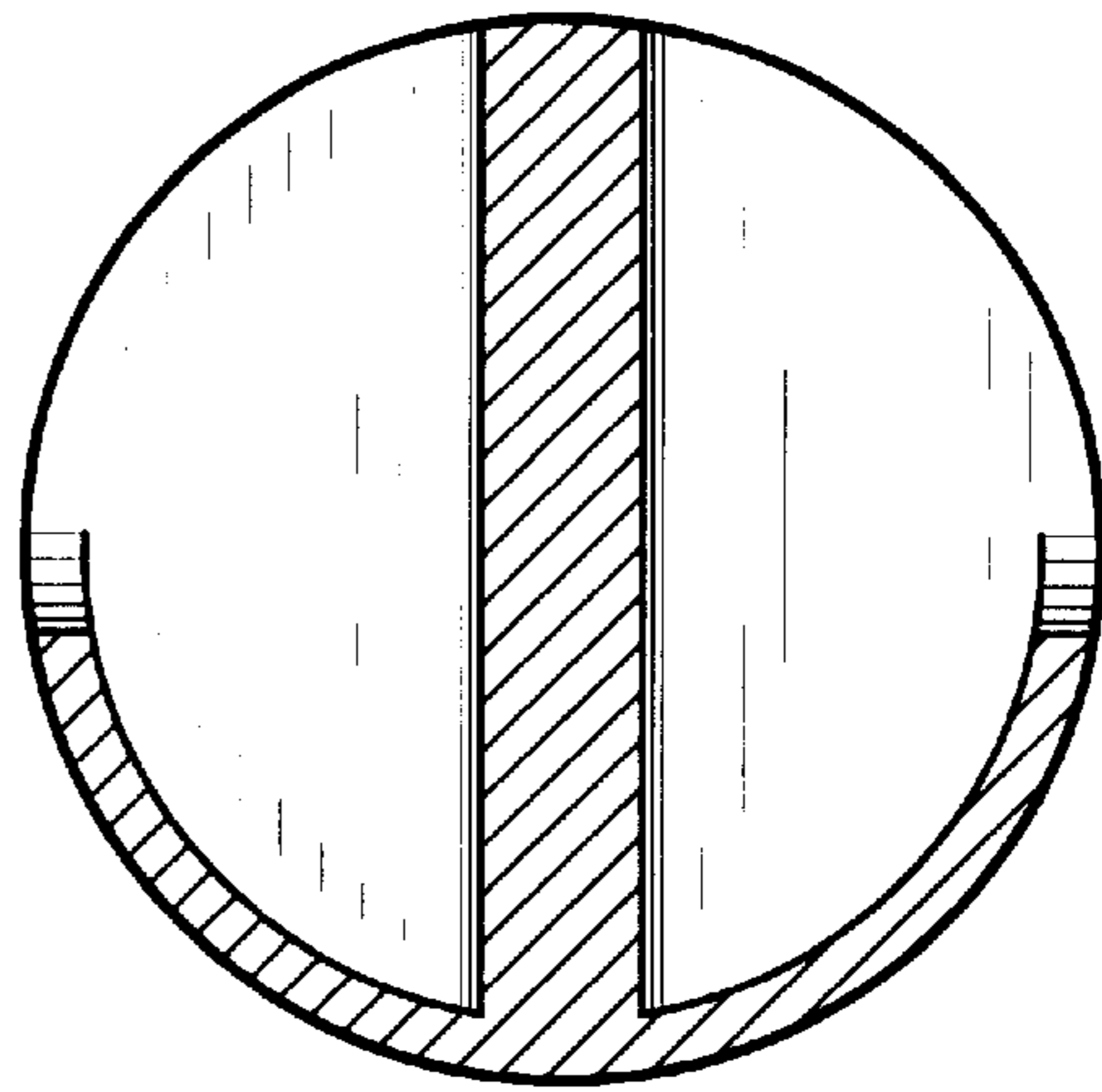


FIG. 6

**FIG. 7**



**FIG. 8**



**FIG. 9**

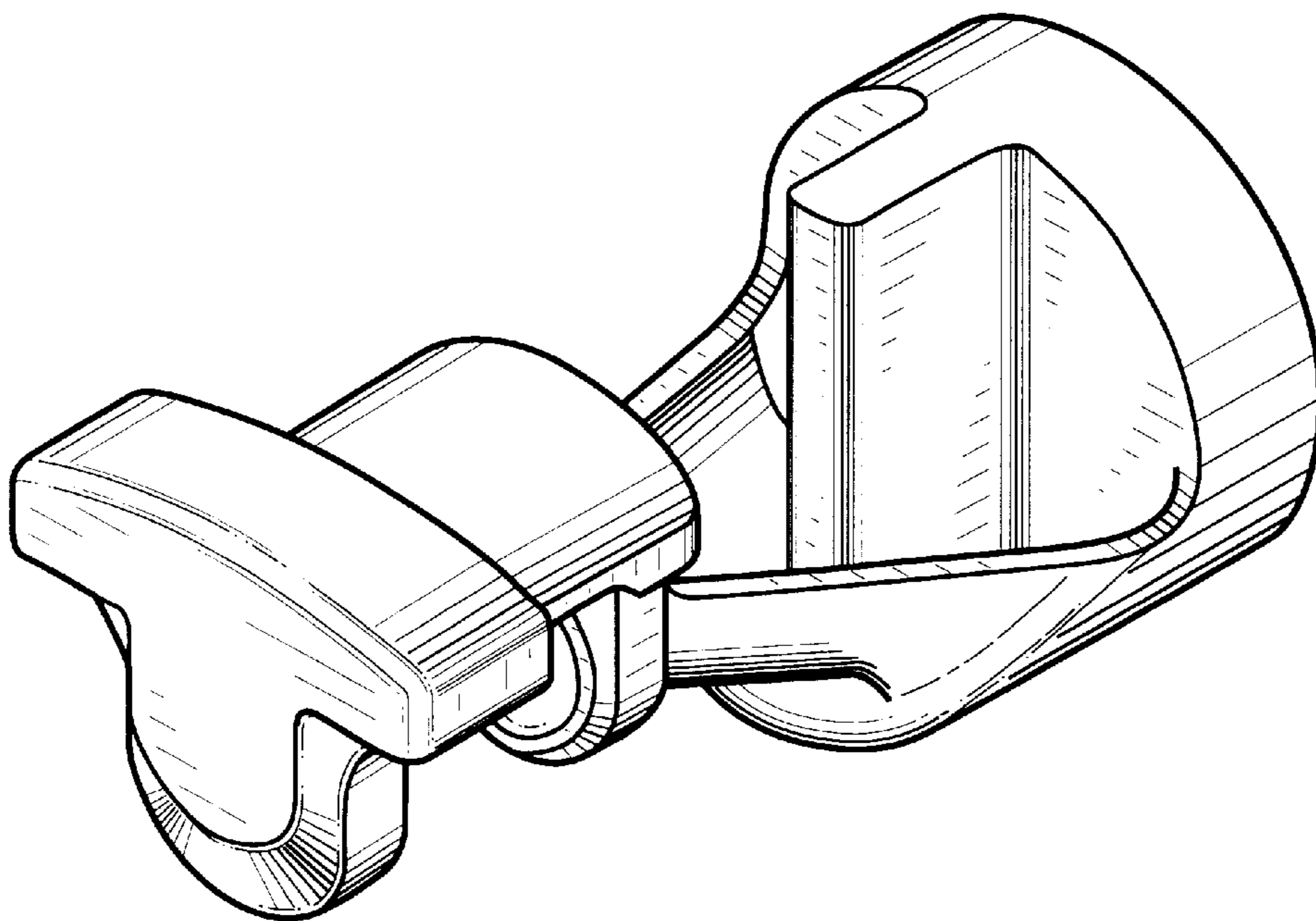


FIG. 10

