



US00D415564S

United States Patent [19]

Sendo et al.

[11] Patent Number: Des. 415,564

[45] Date of Patent: ** Oct. 19, 1999

[54] THERMOSTATIC EXPANSION VALVE FOR VEHICLE AIR CONDITIONING SYSTEMS

[75] Inventors: **Isao Sendo**, Hachioji; **Hiroaki Masuhara**, Hino, both of Japan

[73] Assignees: **TGK Co., Ltd.**, Tokyo, Japan; **Deutsche Controls GmbH**, Munich, Germany

[**] Term: **14 Years**

[21] Appl. No.: **29/069,676**

[22] Filed: **Apr. 1, 1997**

[51] LOC (6) Cl. **12-16**

[52] U.S. Cl. **D23/325**

[58] Field of Search D23/325; 236/92 B; 62/217

[56] References Cited

U.S. PATENT DOCUMENTS

3,810,366 5/1974 Orth 62/217
5,597,117 1/1997 Watanabe et al. 236/92 B

FOREIGN PATENT DOCUMENTS

0 691 517 A1 1/1996 European Pat. Off. .
895995 6/1994 Japan .

OTHER PUBLICATIONS

Singer Catalogue R-204H, published 1976.

Primary Examiner—Lisa Lichtenstein
Attorney, Agent, or Firm—Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.

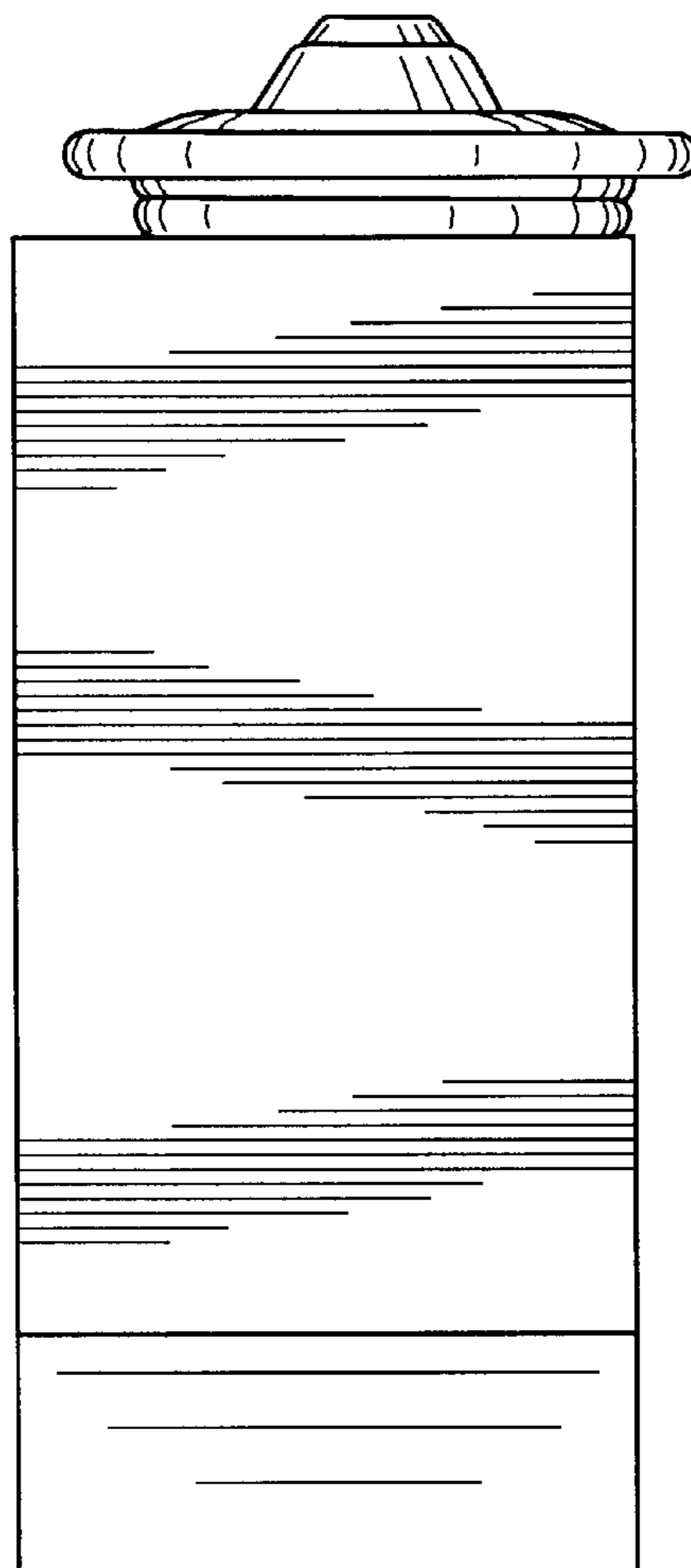
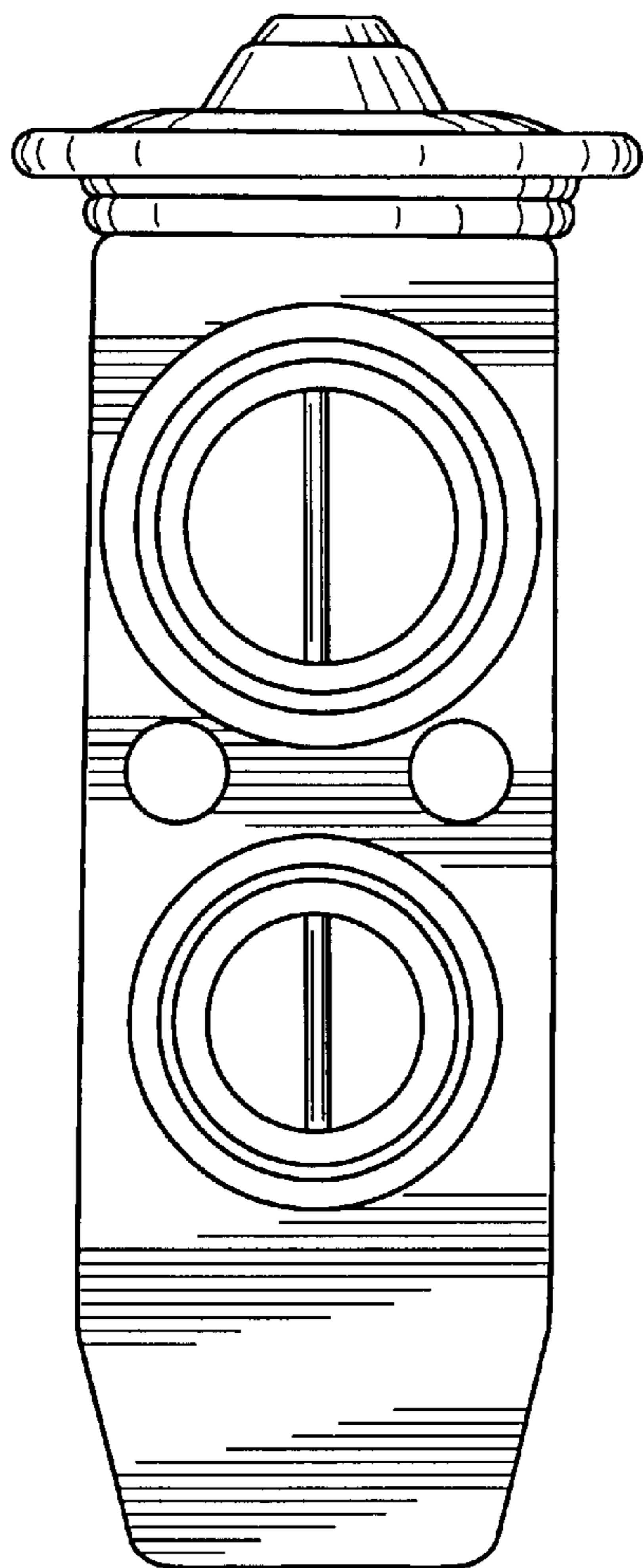
[57] CLAIM

The ornamental design for a thermostatic expansion valve for vehicle air conditioning systems, as shown.

DESCRIPTION

FIG. 1 is a front view of the thermostatic expansion valve for vehicle air conditioning systems;
FIG. 2 is a rear view;
FIG. 3 is a left side view;
FIG. 4 is a right side view;
FIG. 5 is a top view; and,
FIG. 6 is a bottom view.

1 Claim, 2 Drawing Sheets



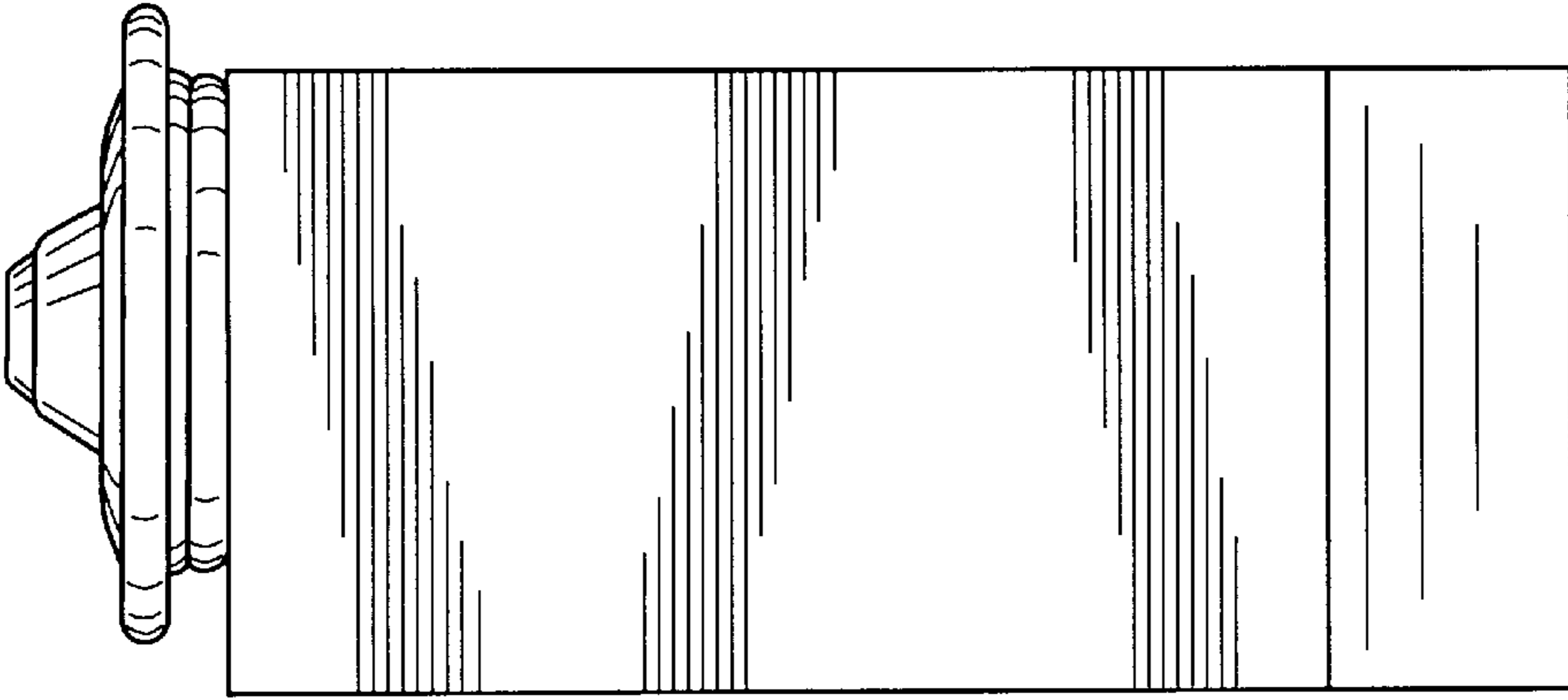


FIG. 1

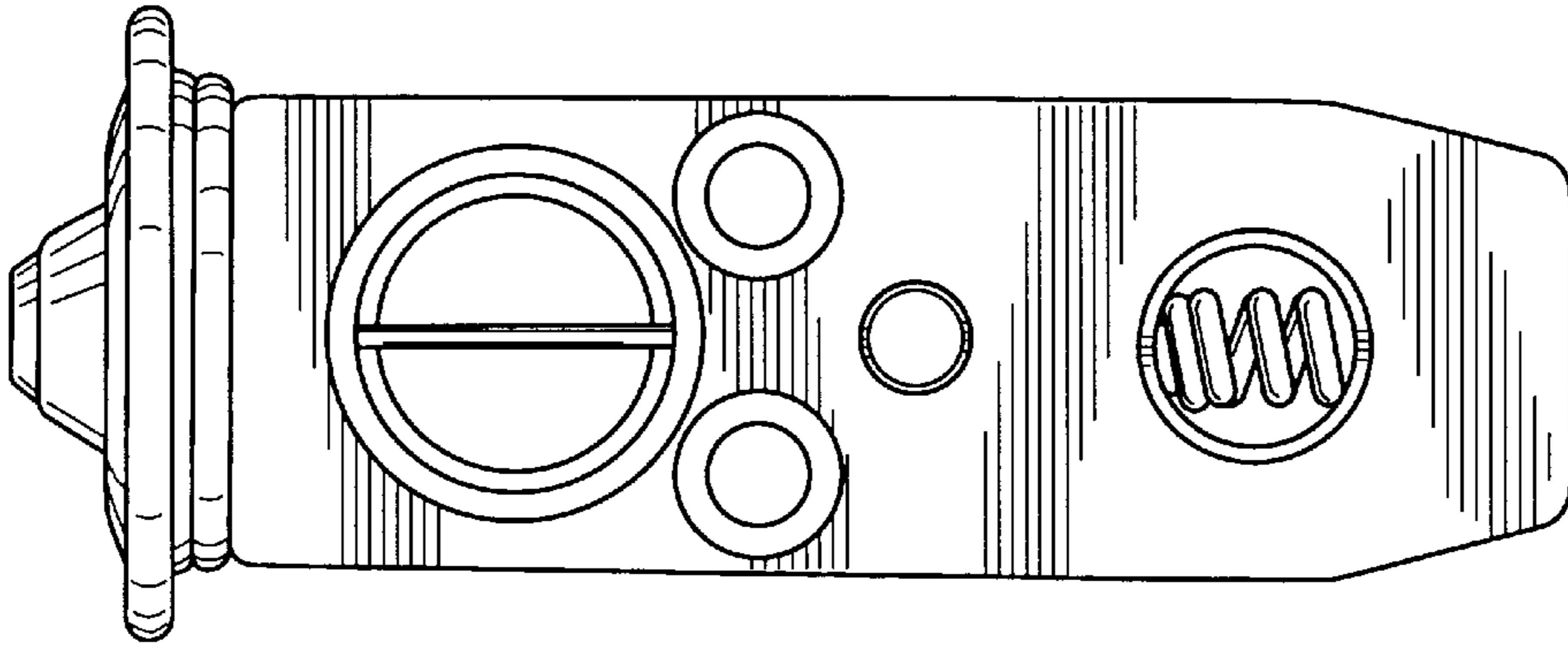


FIG. 2

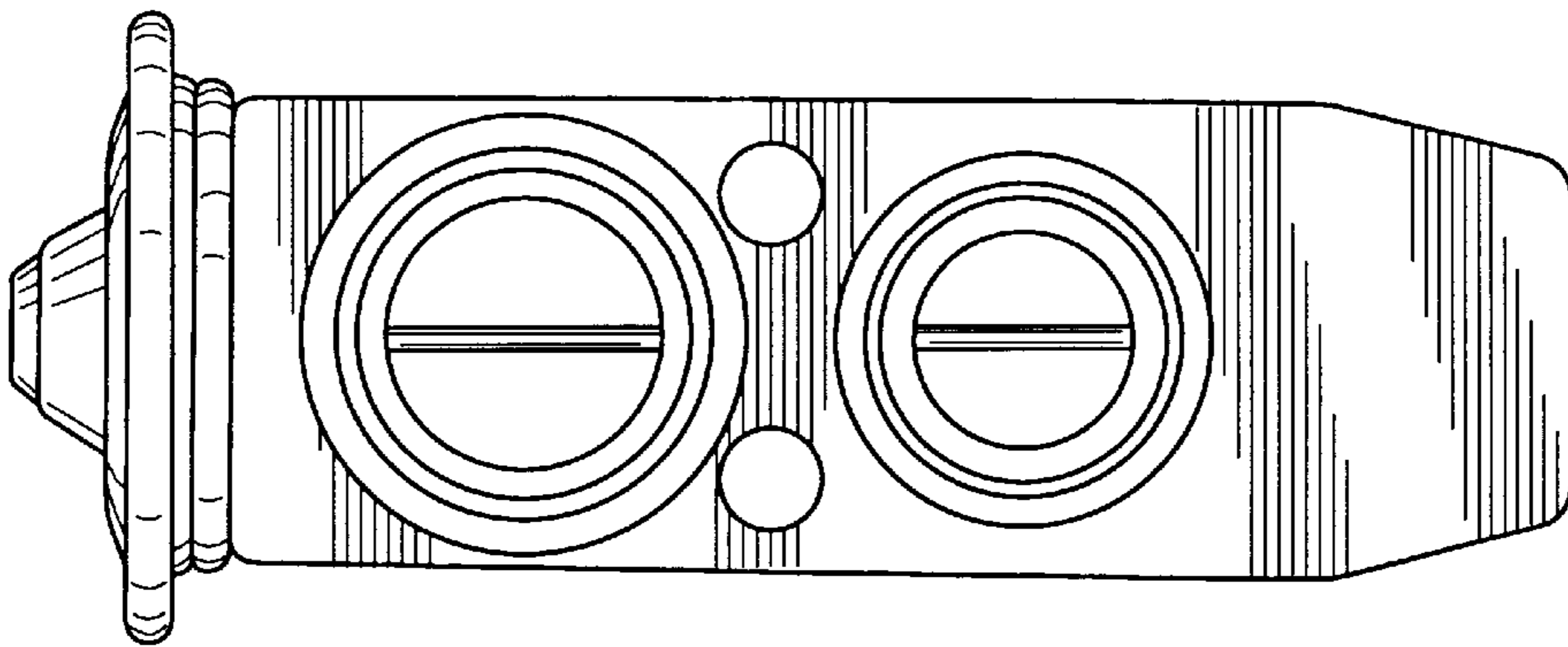


FIG. 3

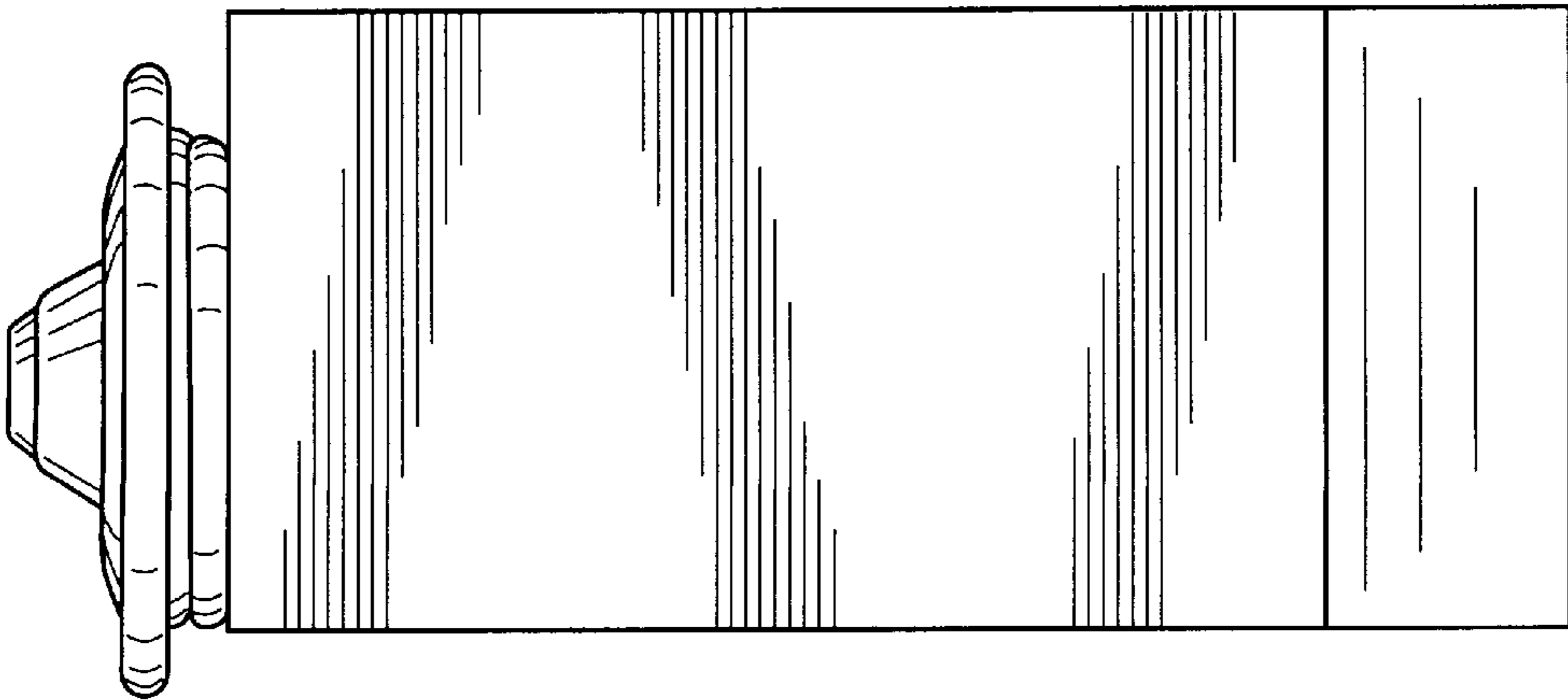


FIG. 4

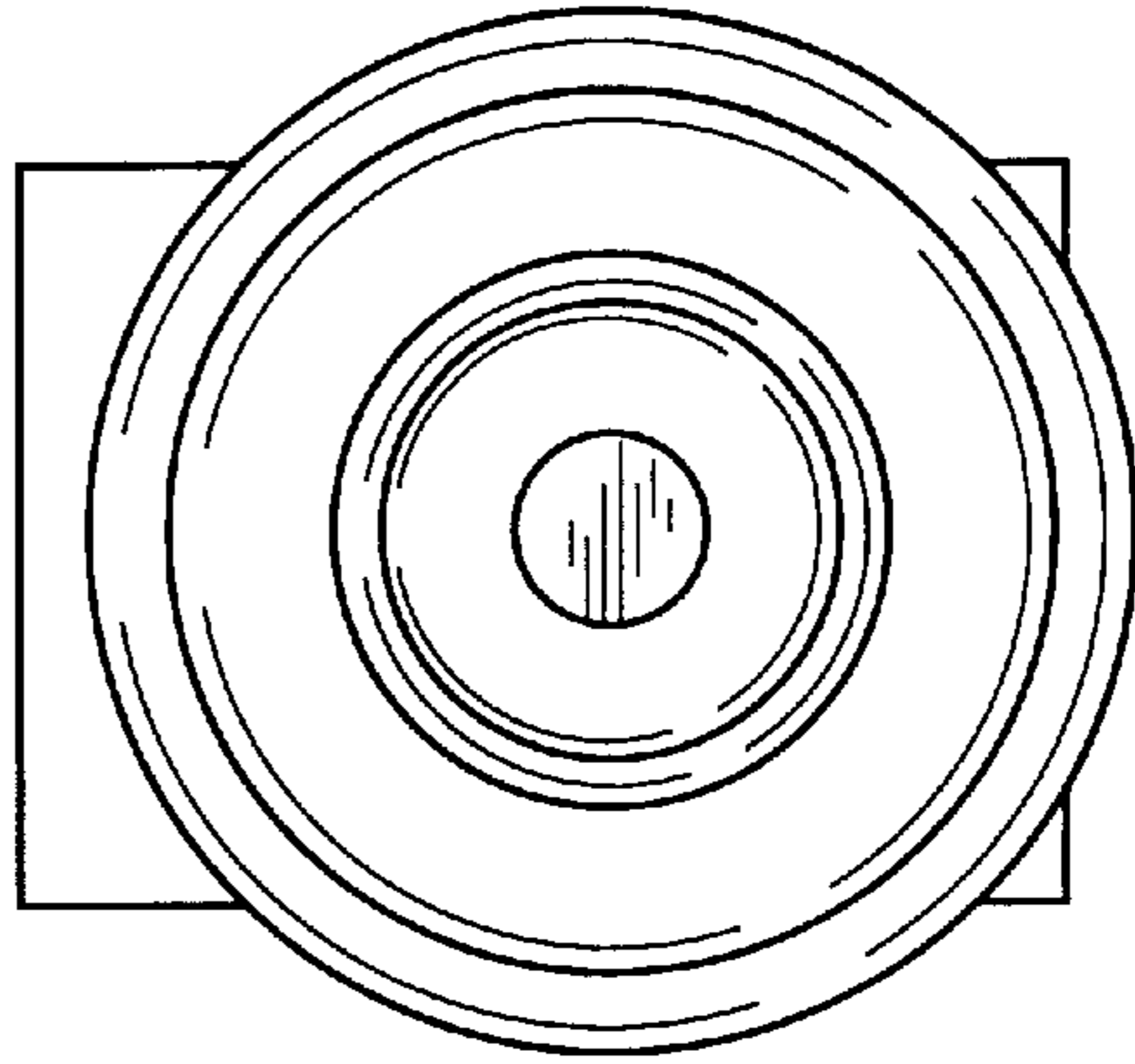


FIG. 5

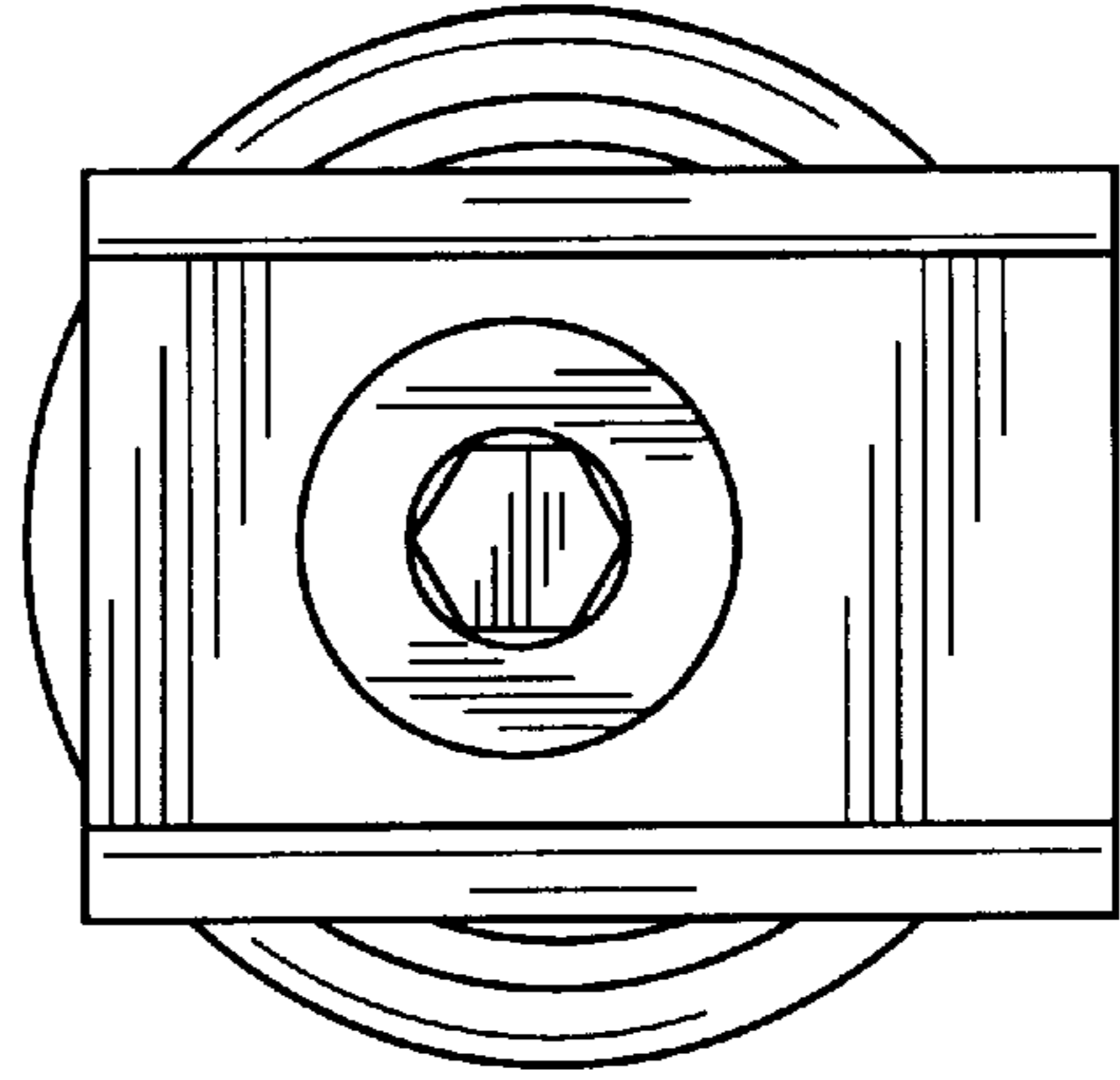


FIG. 6