



US00D343364S

# United States Patent [19]

[11] Patent Number: **Des. 343,364**

Beulke

[45] Date of Patent: **\*\* Jan. 18, 1994**

- [54] **SMALL LINE SIZE WINGED FLOWMETER**
- [75] Inventor: **Melvin R. Beulke**, Hopkins, Minn.
- [73] Assignee: **Rosemount Inc.**, Eden Prairie, Minn.
- [\*\*] Term: **14 Years**
- [21] Appl. No.: **741**
- [22] Filed: **Oct. 23, 1992**
- [52] U.S. Cl. .... **D10/96; D10/103**
- [58] Field of Search ..... **73/861.18-861.25,**  
**73/272 R, 278; D10/96, 100-103; D24/233,**  
**249, 245, 499**

### [56] References Cited

#### U.S. PATENT DOCUMENTS

D. 296,530	7/1988	Nowacki et al. ....	D10/96
4,088,020	5/1978	Sgourakes et al. ....	73/851.24
4,248,098	2/1981	Sawayama .....	73/861.24
4,718,283	1/1988	Kamentser .....	73/861.22
4,976,156	12/1990	Lew .....	73/861.24

#### OTHER PUBLICATIONS

- Rosemount Inc. Measurement Division, Model 8711 Magnetic Flowmeter Flowtube, Product Data Sheet PDS 4564, Apr. 1991, pp. 2-5.
- Brooks Instrument Division, Emerson Electric Co., Product Information Catalog, Brochure No. DS-7400LW, Jan. 1990, pp. G23-G30.
- Krohne Brochure, ALTOFLUX X-1000 The High Accuracy Electro-Magnetic Flowmeter With The Measuring Section of Fused Alumina Corundum, 12 pages.
- Krohne Brochure, ALTOFLUX X-1000-The Elec-

- tro-Magnetic Flowmeter With The Ceramic Metal-Oxide Measuring Section, 4 pages.
- Fischer & Porter Specification, MINI-MAG® Magnetic Flowmeter, Oct. 1981, pp. 1-5.
- Fischer & Porter Literature, Meet the Money-Saver . . . The New Vortex Flowmeter For Liquids, Gases and Steam, 1984.
- Fischer & Porter Advertisement, True Blue, I&C-S—The Industrial and Process Control Magazine, Mar. 1985.
- Yokogawa Corp. of America Advertisement, If You Have A Fluid And You Can Move It, We Can Meter It.
- Foxboro Advertisement, The Biggest News In Magnetic Flowmeters Is No Big Thing.

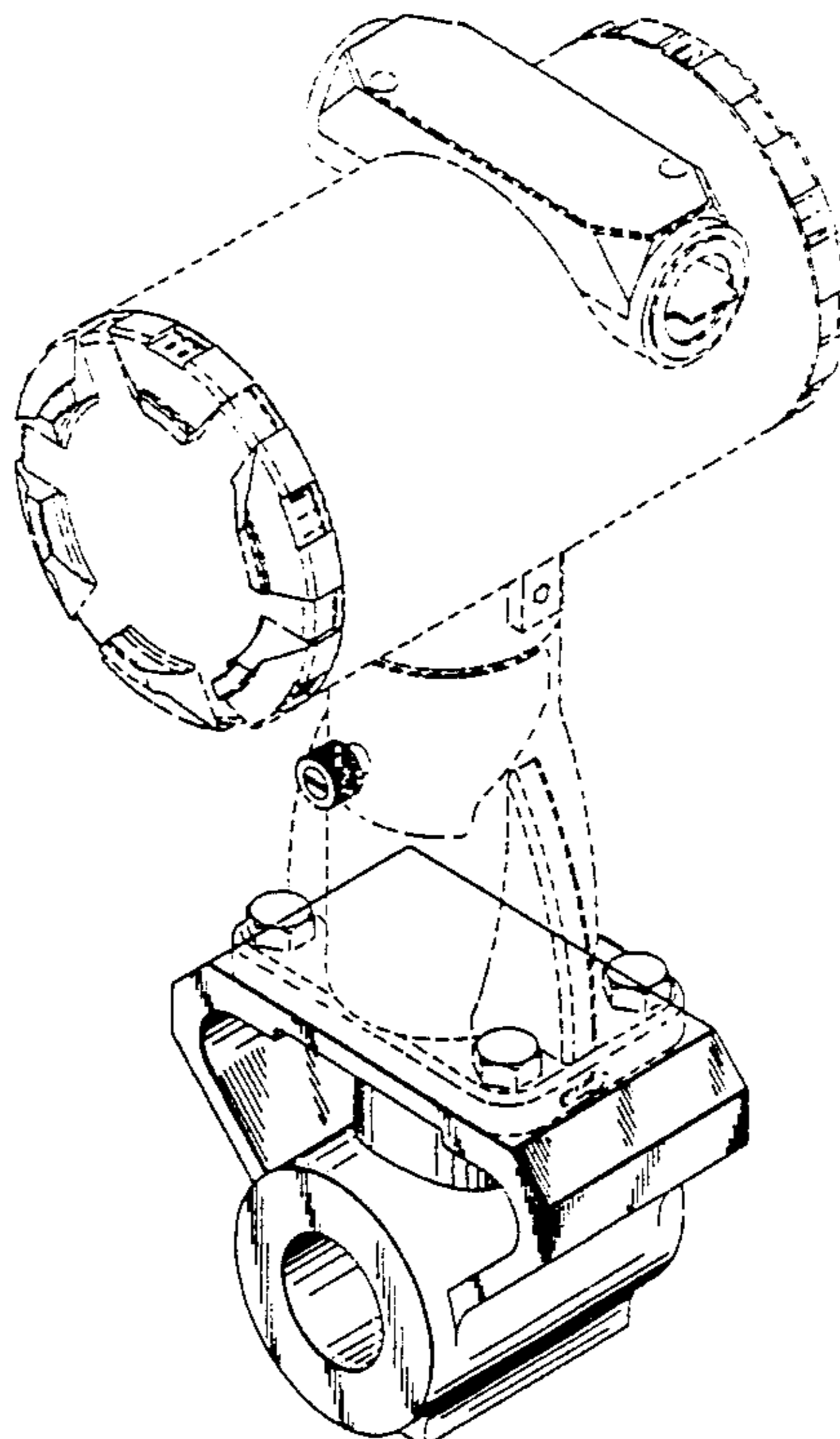
*Primary Examiner*—Alan P. Douglas  
*Assistant Examiner*—Antoine D. Davis  
*Attorney, Agent, or Firm*—Westman, Champlin & Kelly

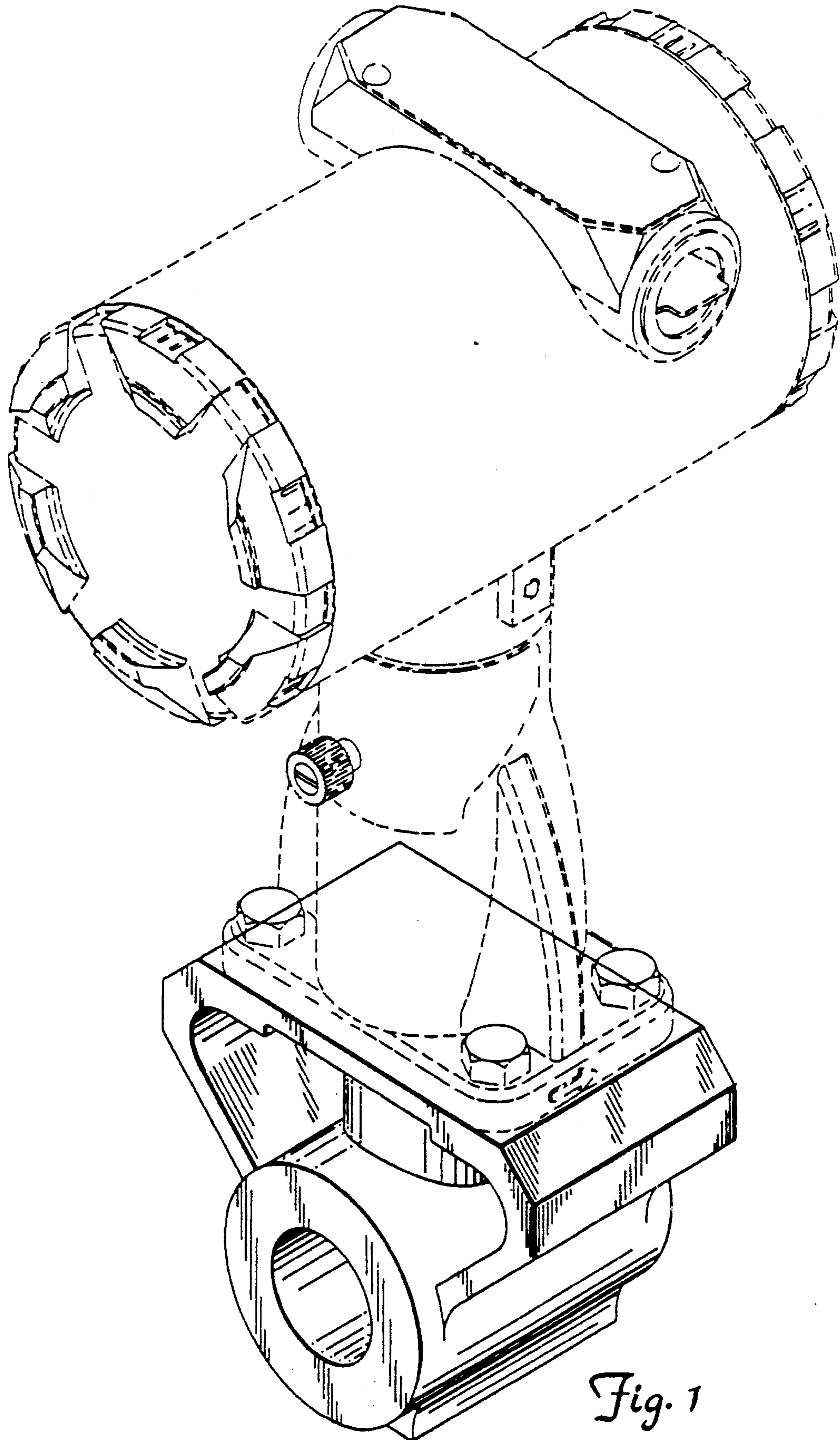
### [57] CLAIM

The ornamental design for a small line size winged flowmeter, as shown and described.

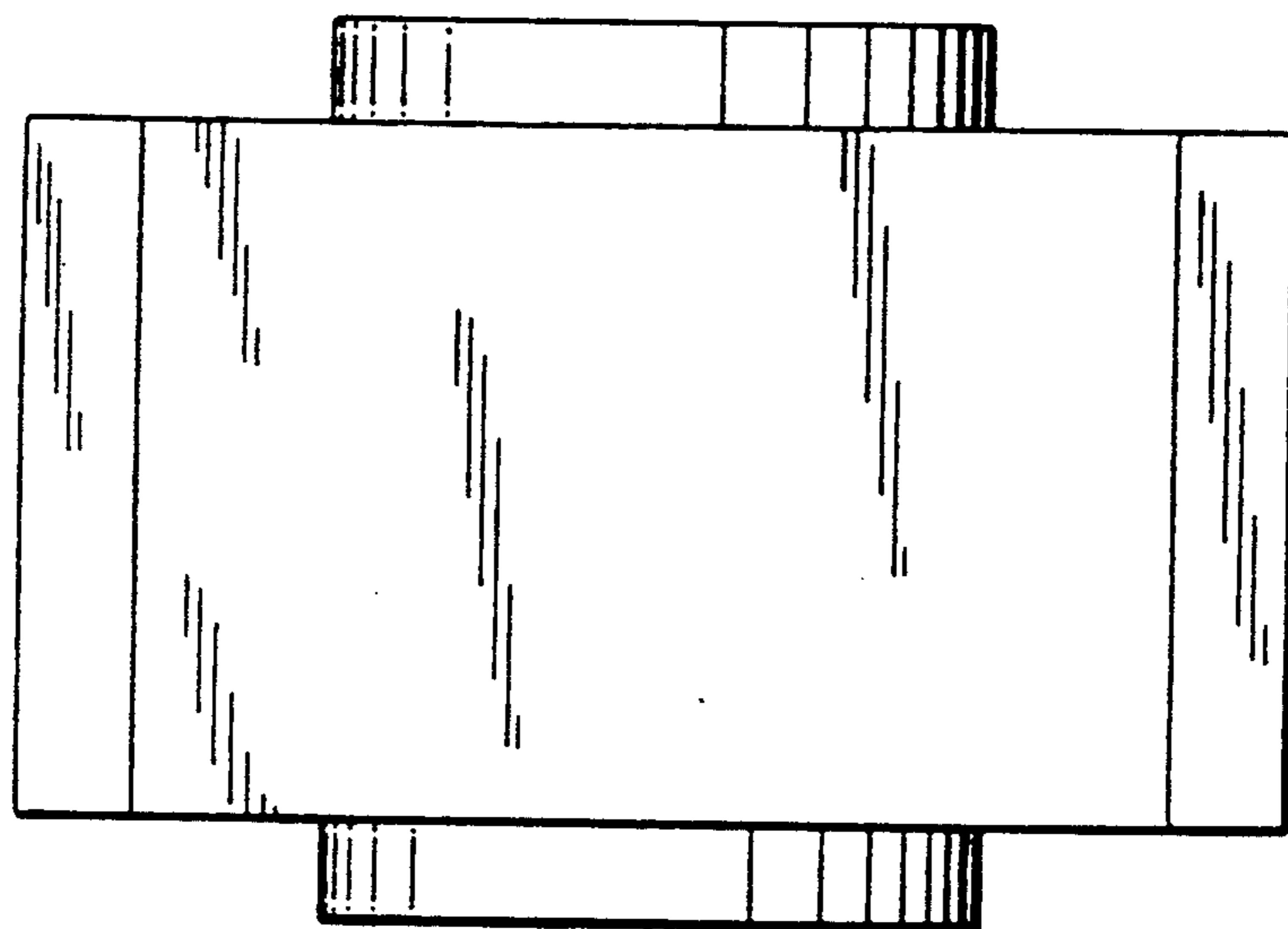
### DESCRIPTION

FIG. 1 is a top, front, and right side view of a small line size winged flowmeter showing our new design;  
 FIG. 2 is a top plan view;  
 FIG. 3 is a front view;  
 FIG. 4 is a right side elevational view; and,  
 FIG. 5 is a bottom plan view thereof.  
 FIG. 1 has been drawn on a slightly reduced scale with respect to FIGS. 2-5.  
 The broken line showing of flowmeter housing is for illustrative purposes only and forms no part of the claimed design.

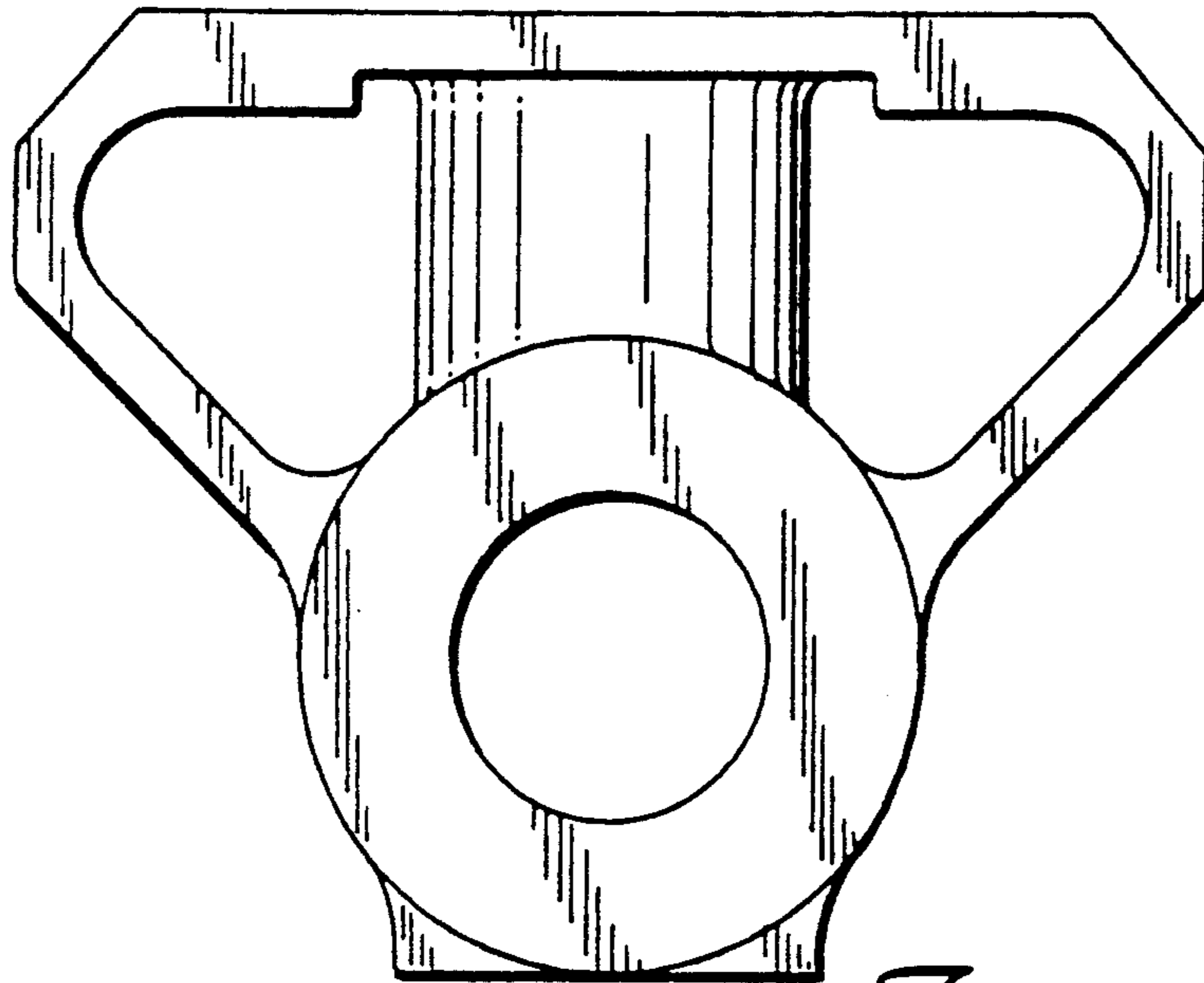




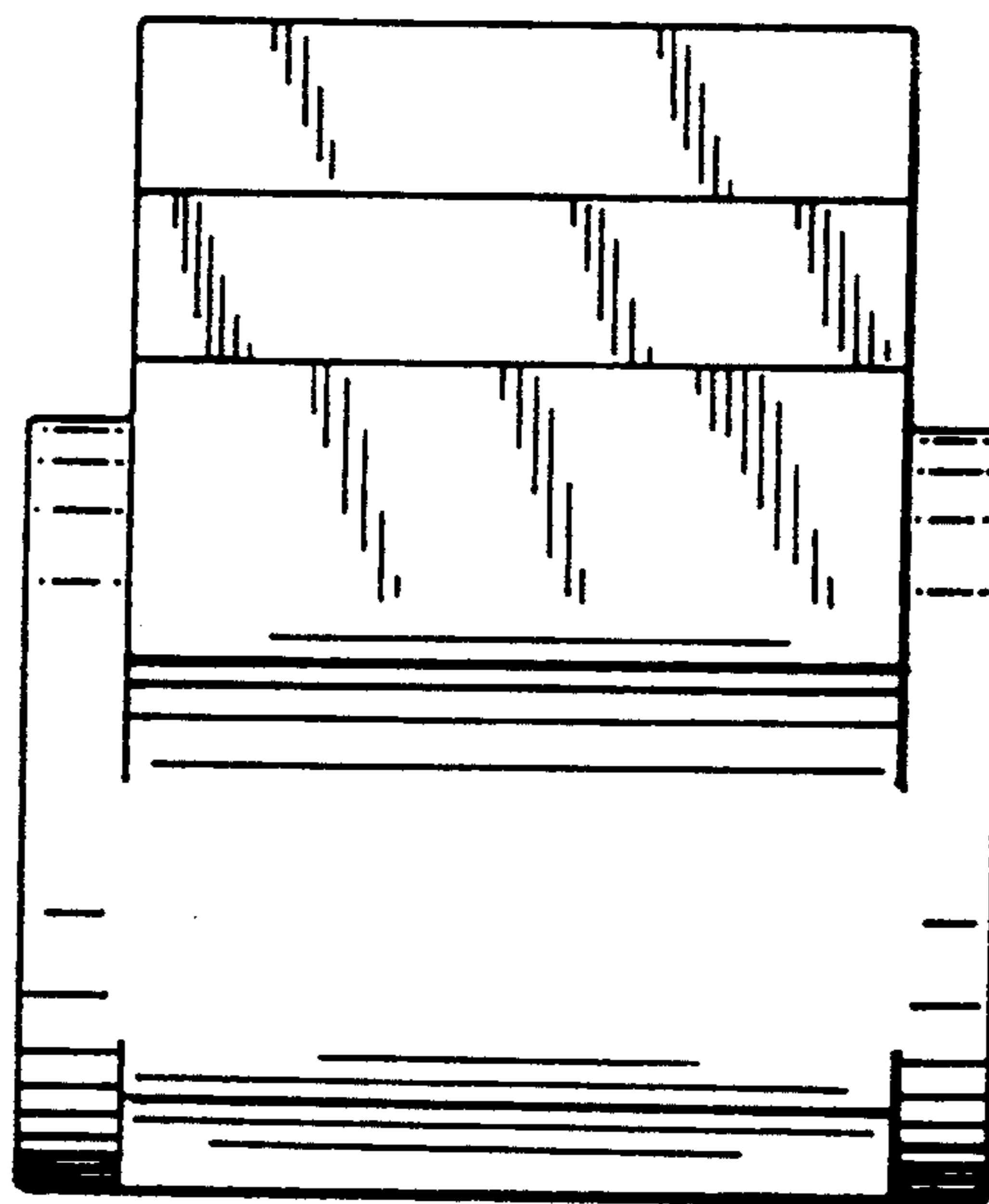
*Fig. 1*



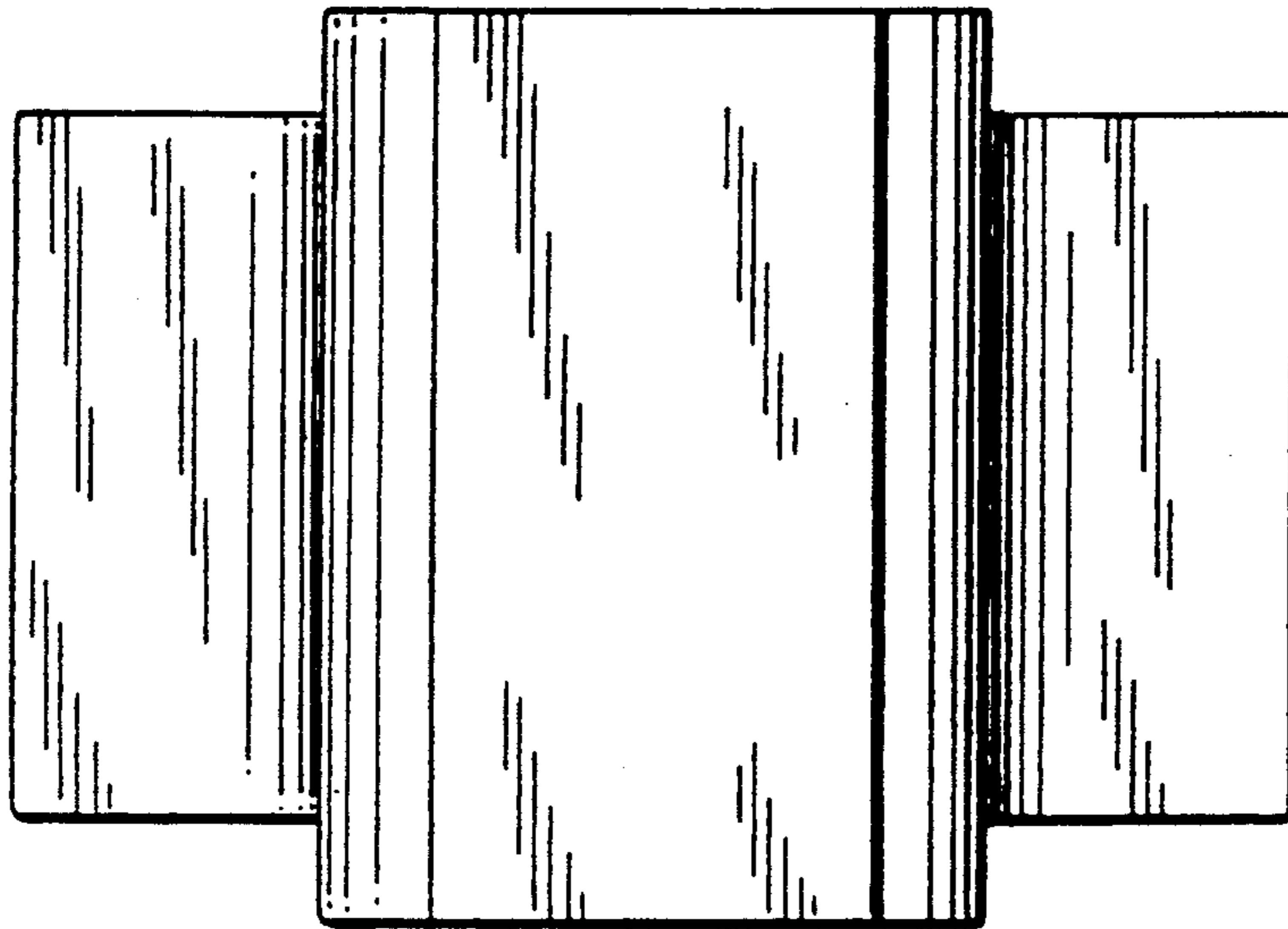
*Fig. 2*



*Fig. 3*



*Fig. 4*



*Fig. 5*