

[54] AIR CYLINDER

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[73] Assignee: Peninsular, Inc., Roseville, Mich.

[\*\*] Term: 14 Years

[21] Appl. No.: 857,780

[22] Filed: Apr. 28, 1986

[52] U.S. Cl. .... D15/7

[58] Field of Search ..... D15/7, 9, 5; 92/5; 91/196; 417/437, 460

[56] References Cited

U.S. PATENT DOCUMENTS

D. 173,065	9/1954	Darr	.....	D15/7
D. 264,972	6/1982	McMillin et al.	.....	D15/7
385,319	6/1888	North	.....	D15/7 X
1,596,356	8/1926	Hughes	.....	417/554
2,336,240	12/1943	Gavin	.....	92/159
2,349,253	5/1944	Edmund	.....	92/159
4,021,027	5/1977	Blatt	.....	269/32
4,458,889	7/1984	McPherson et al.	.....	269/32
4,632,018	12/1986	Lymburner	.....	92/5 R
4,681,992	7/1987	Kazmierski	.....	200/82

FOREIGN PATENT DOCUMENTS

0044287	1/1982	European Pat. Off.	.
2342419	9/1977	France	.
1202663	8/1970	United Kingdom	.

OTHER PUBLICATIONS

Lincoln Controls Hydraulic; Pneumatic Systems & Equipment catalogue (1982), p. 186, Sheffer Series MH Hydraulic Trunnion Front Mount, style TF.

Bellows-Valvair brochure (1966), front page, "Air Motor".

Stellhorn catalogue (1982), p. 104, Air-Hydraulic Cylinder.

5 Sheets from General Motors Publication No. PE-D-704, published 9/30/82 (which illustrate Fisher A Style AP Model Cylinders).

Primary Examiner—Wallace R. Burke

Assistant Examiner—Brian N. Vinson

Attorney, Agent, or Firm—Harness, Dickey & Pierce

[57] CLAIM

The ornamental design for an air cylinder, substantially as shown and described.

DESCRIPTION

FIG. 1 is a top, front and right side perspective view of an air cylinder showing my new design;

FIG. 2 is a bottom, rear and left side perspective view thereof;

FIG. 3 is an enlarged top plan view thereof;

FIG. 4 is an enlarged front elevational view thereof, the rear being substantially similar in appearance;

FIG. 5 is an enlarged right side elevational view thereof;

FIG. 6 is an enlarged left side elevational view thereof;

FIG. 7 is a top, front and right side perspective view of a second embodiment thereof;

FIG. 8 is a bottom, rear and left side perspective view of the embodiment of FIG. 7;

FIG. 9 is an enlarged top plan view of the embodiment of FIG. 7;

FIG. 10 is an enlarged front elevational view of the embodiment of FIG. 7, the rear being substantially similar in appearance;

FIG. 11 is an enlarged right side elevational view of the embodiment of FIG. 7;

FIG. 12 is an enlarged left side elevational view of the embodiment of FIG. 7;

FIG. 13 is a top, front and right side perspective view of a third embodiment thereof;

FIG. 14 is a bottom, rear and left side perspective view of the embodiment of FIG. 13;

FIG. 15 is an enlarged top plan view of the embodiment of FIG. 13;

FIG. 16 is an enlarged front elevational view of the embodiment of FIG. 13, the rear being substantially similar in appearance;

FIG. 17 is an enlarged right side elevational view of the embodiment of FIG. 13;

FIG. 18 is an enlarged left side elevational view of the embodiment of FIG. 13;

FIG. 19 is a top, front and right side perspective view of a fourth embodiment thereof;

FIG. 20 is a bottom, rear and left side perspective view of the embodiment of FIG. 19;

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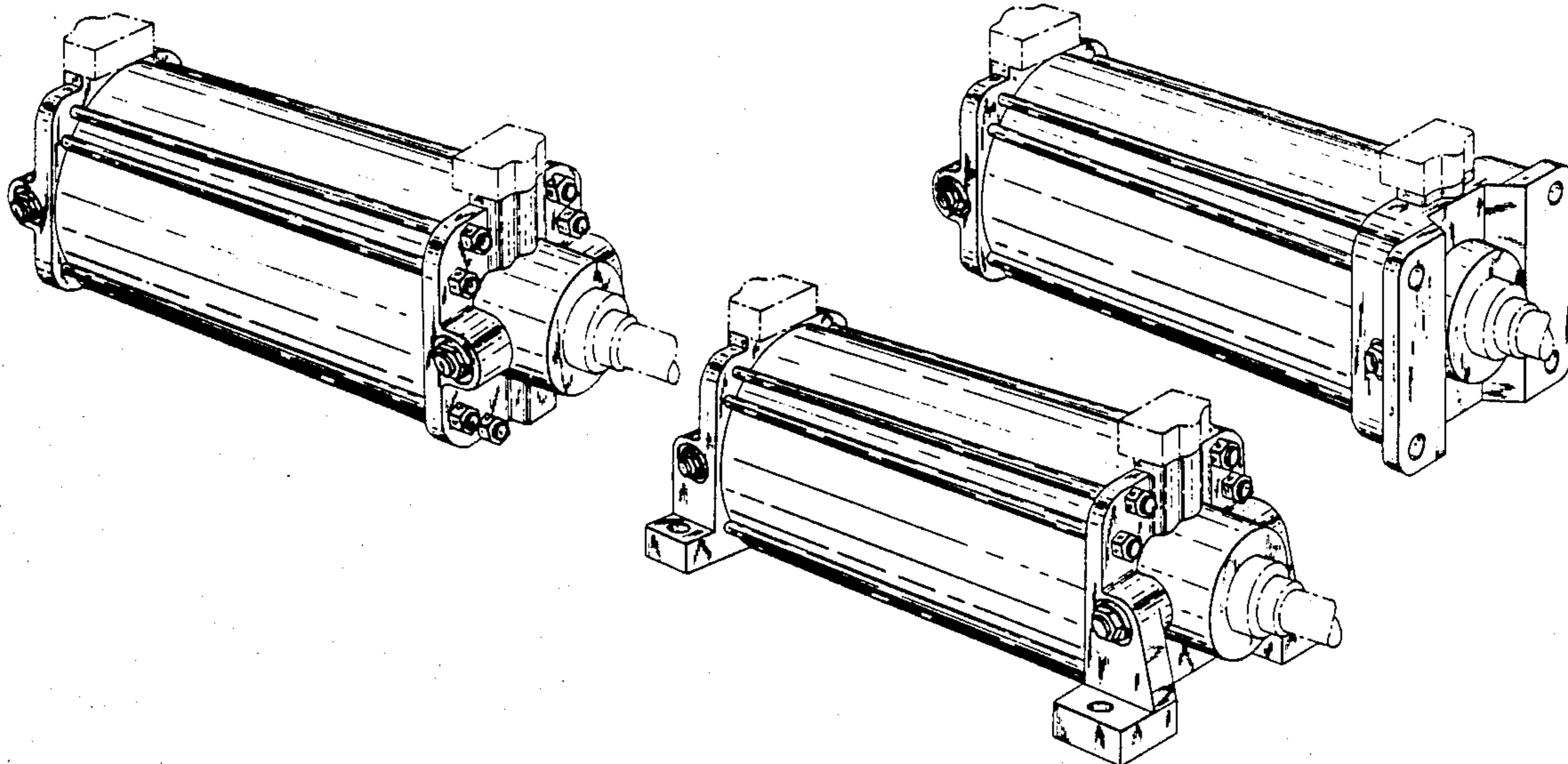


FIG. 21 is an enlarged top plan view of the embodiment of FIG. 19;

FIG. 22 is an enlarged front elevational view of the embodiment of FIG. 19, the rear being substantially similar in appearance;

FIG. 23 is an enlarged right side elevational view of the embodiment of FIG. 19;

FIG. 24 is an enlarged left side elevational view of the embodiment of FIG. 19;

FIG. 25 is a top, front and right side perspective view of a fifth embodiment thereof;

FIG. 26 is a bottom, rear and left side perspective view of the embodiment of FIG. 25;

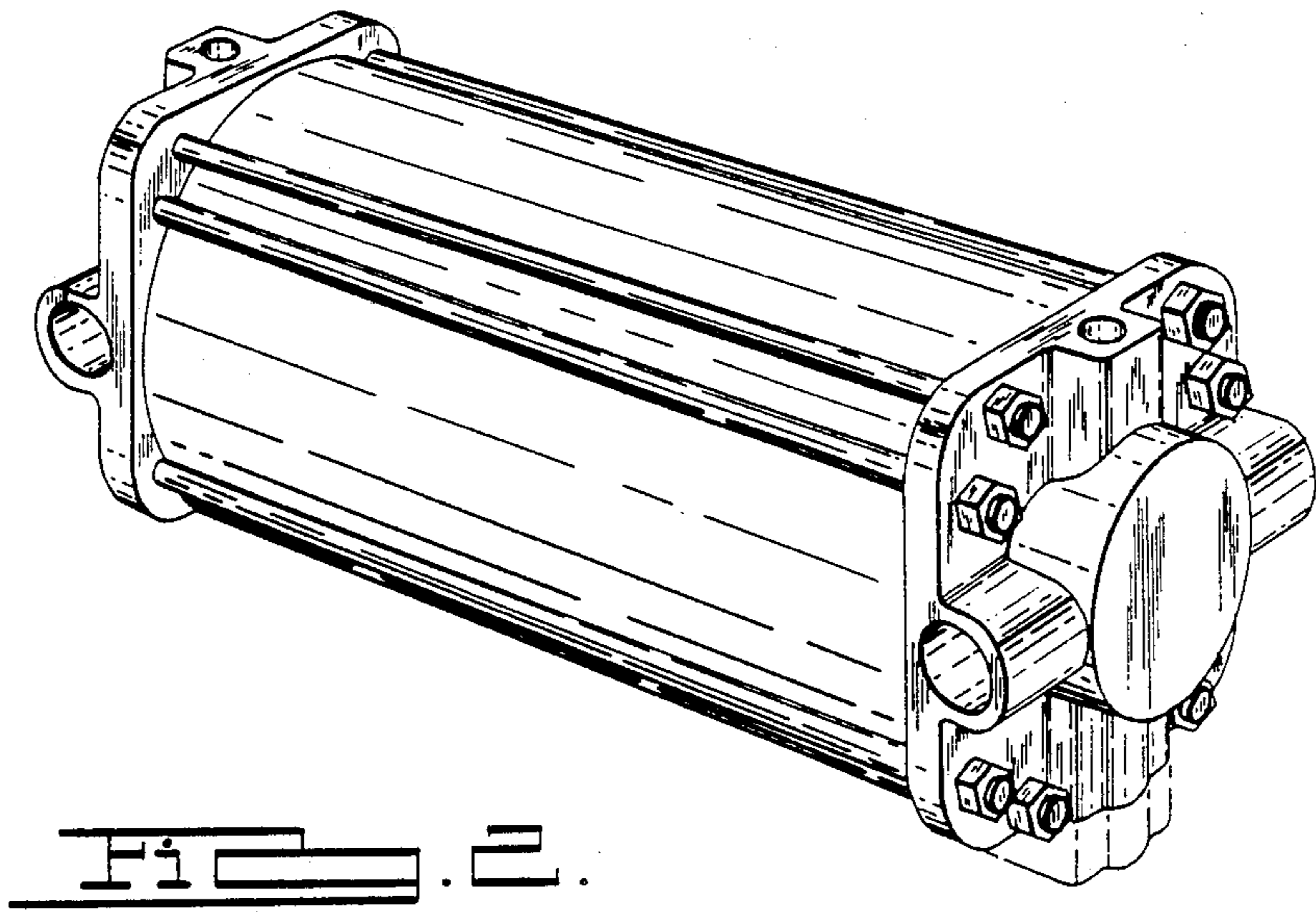
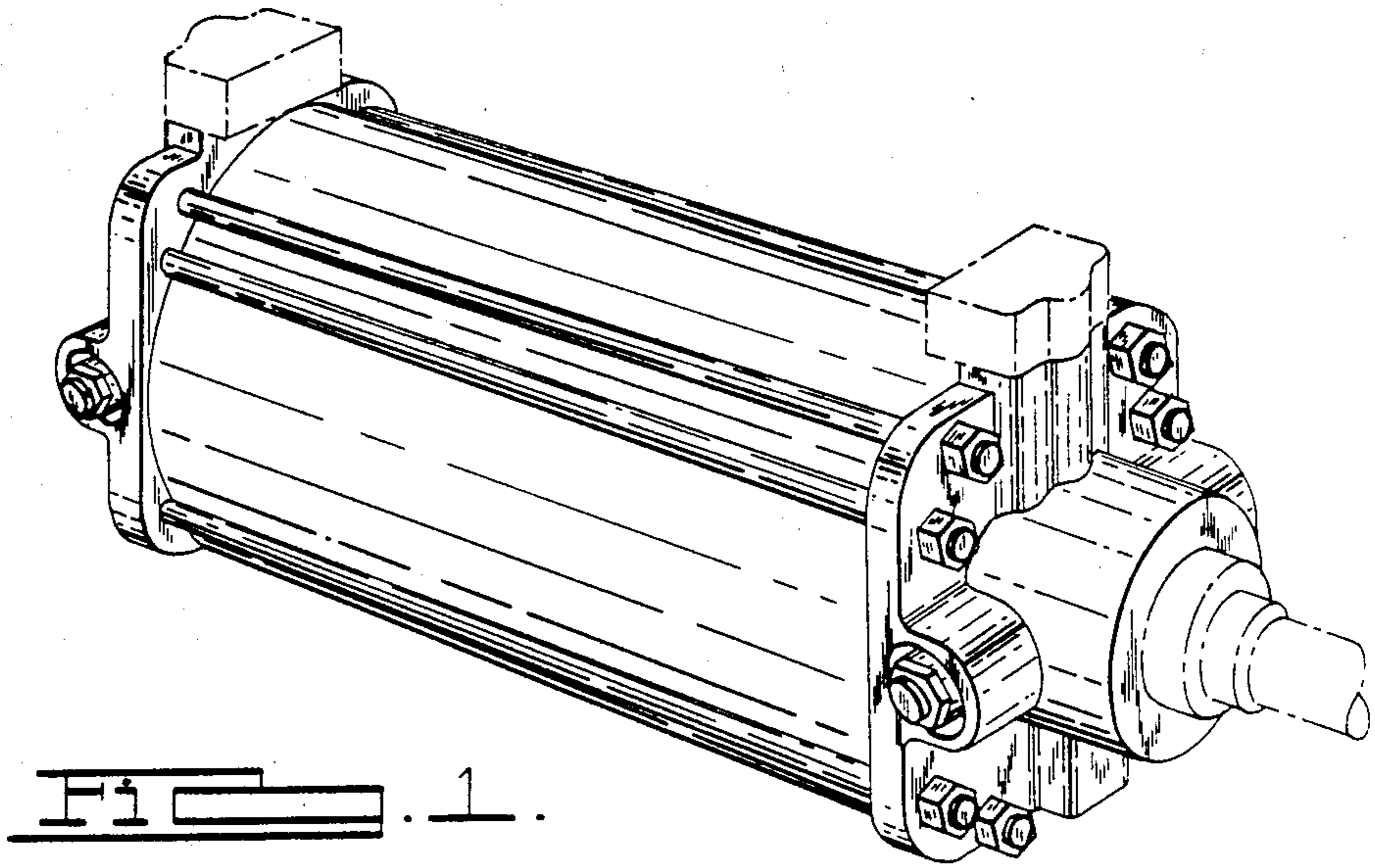
FIG. 27 is an enlarged top plan view of the embodiment of FIG. 25;

FIG. 28 is an enlarged front elevational view of the embodiment of FIG. 25, the rear being substantially similar in appearance;

FIG. 29 is an enlarged right side elevational view of the embodiment of FIG. 25; and

FIG. 30 is an enlarged left side elevational view of the embodiment of FIG. 25.

FIGS. 3, 4, 9, 10, 15, 16, 21, 22, 27 and 28 are shown with portions omitted for ease of illustration, and the broken-line showing of various elements is for illustrative purposes only and forms no part of the claimed design.



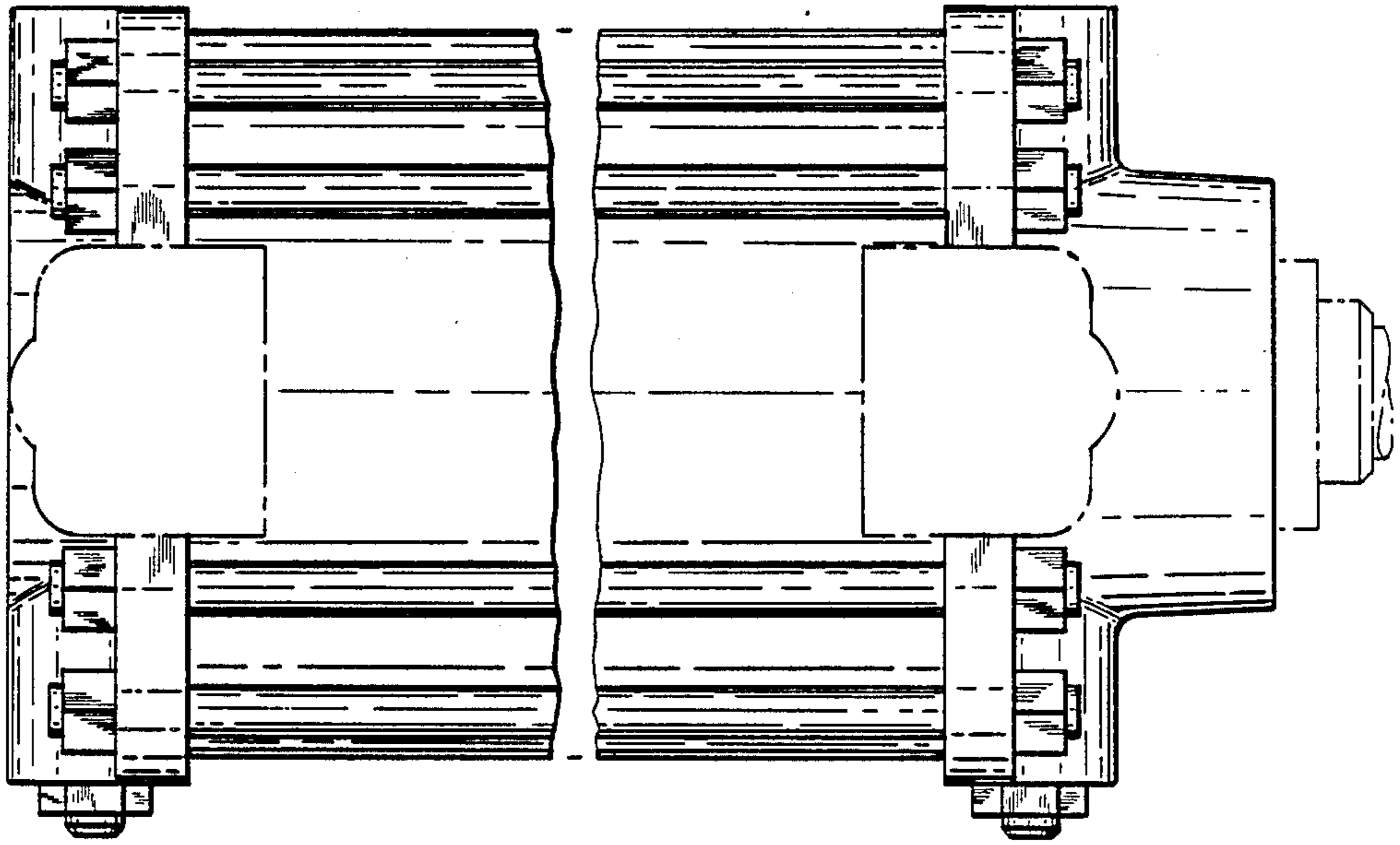
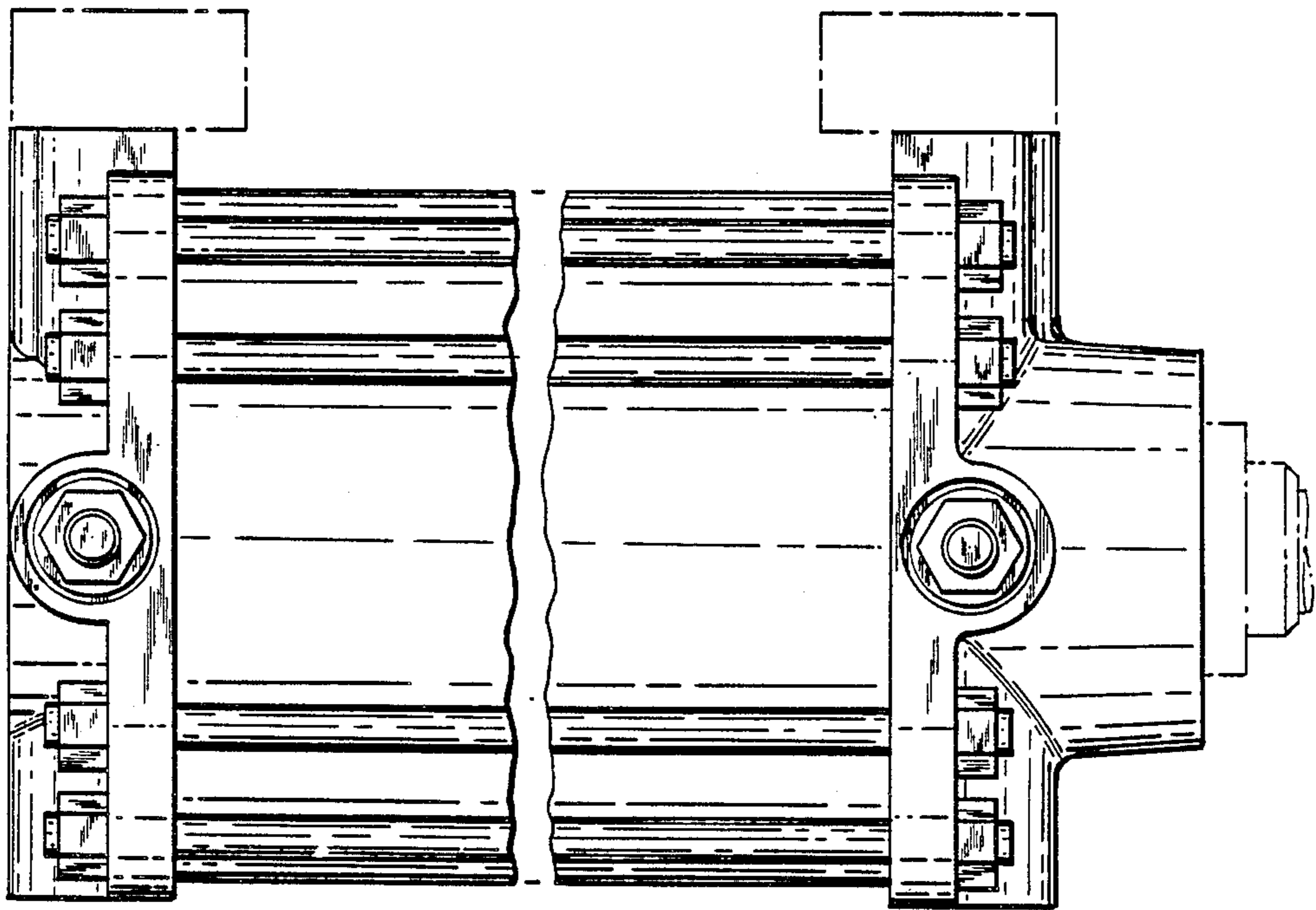


FIG. 3.

FIG. 4.



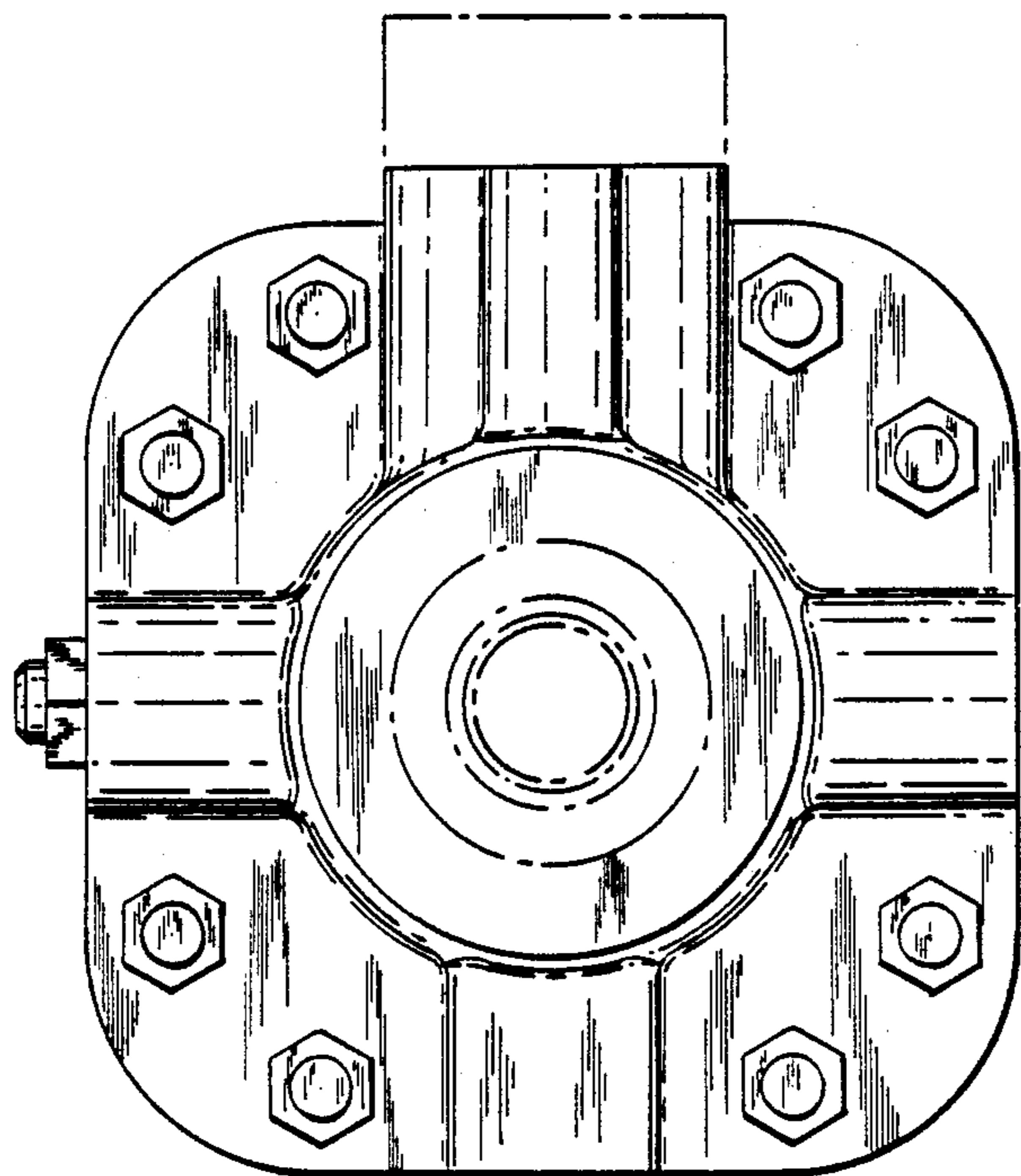


FIG. 5.

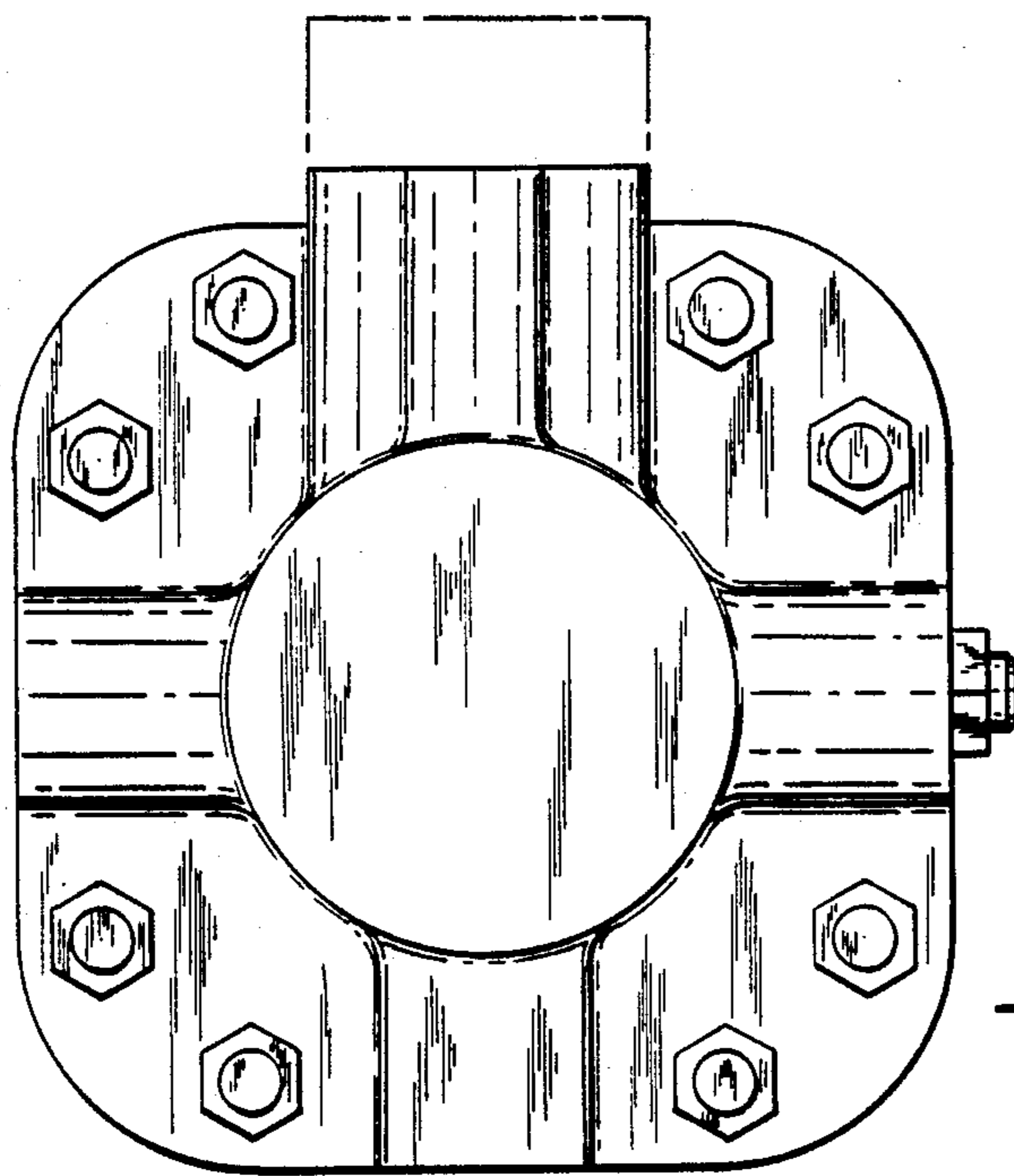
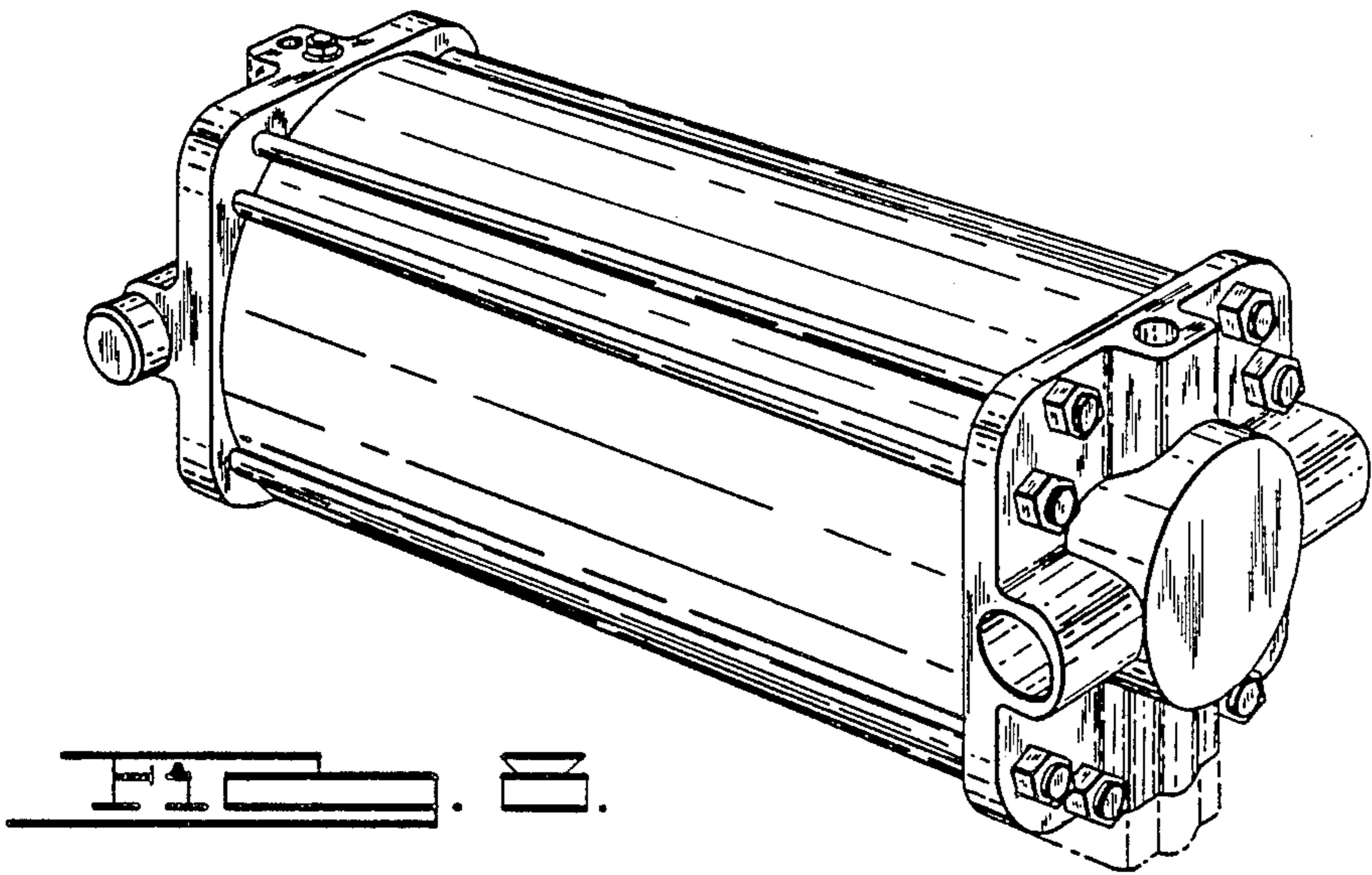
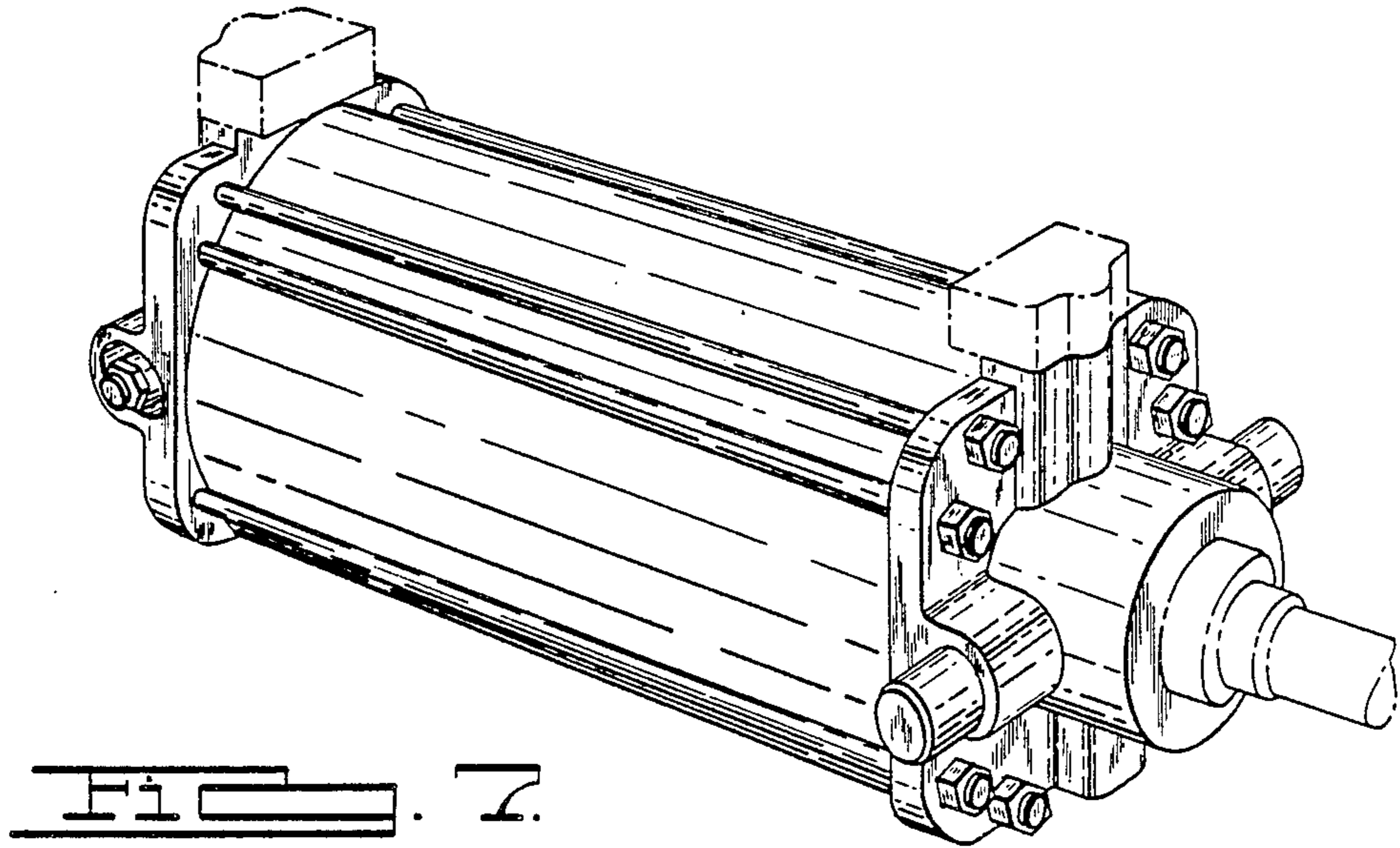
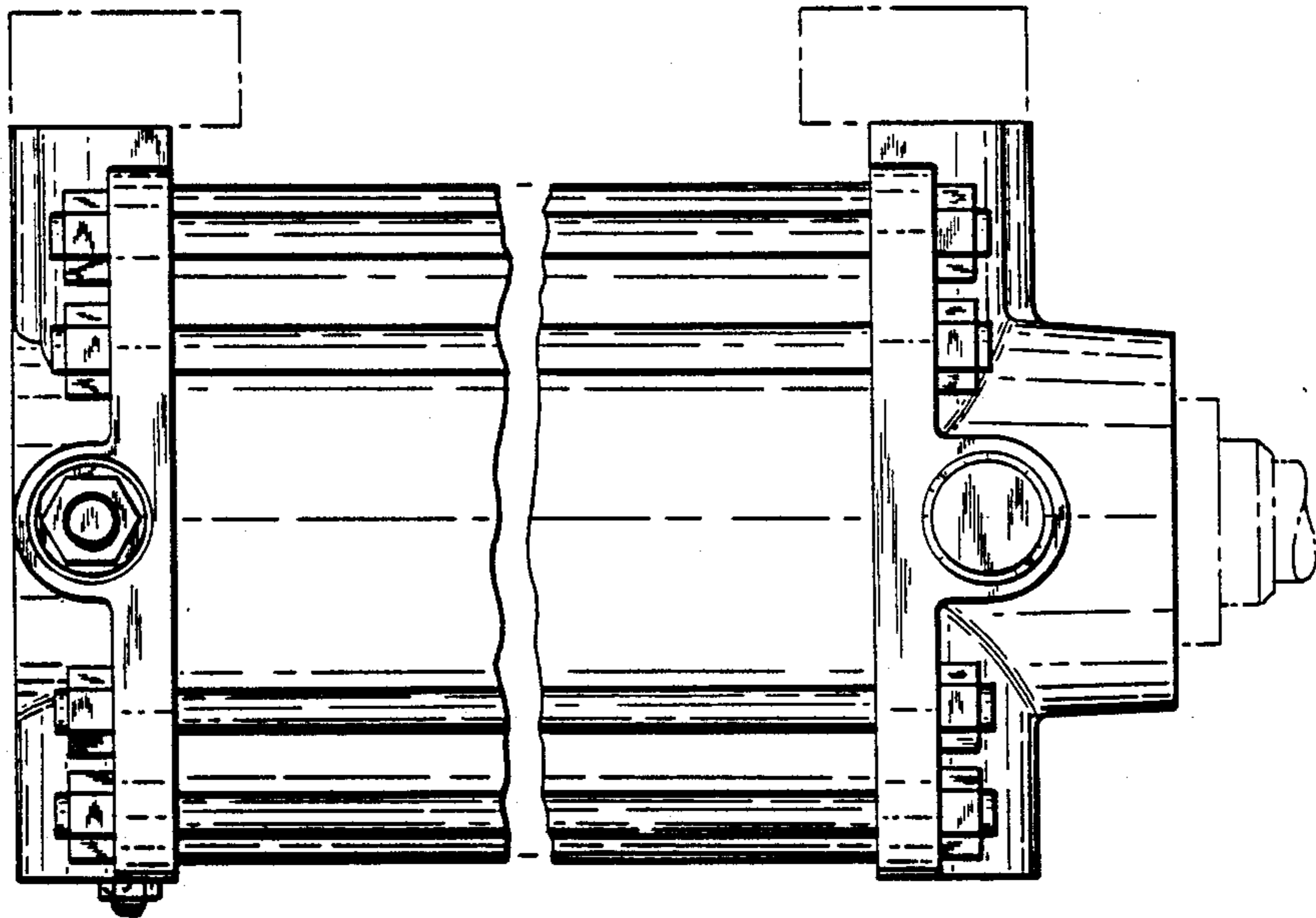
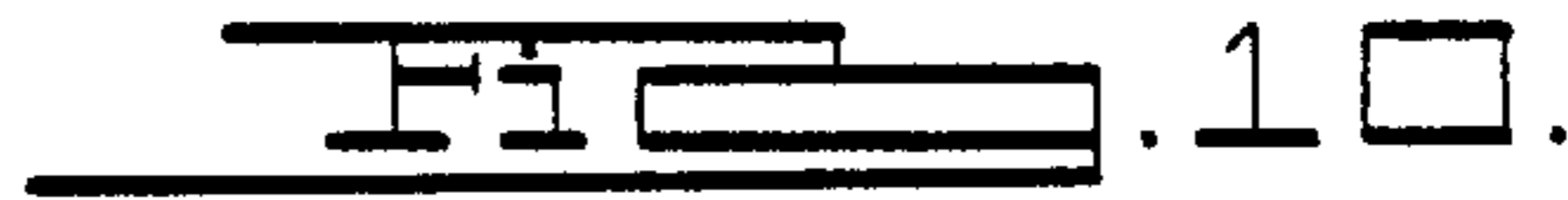
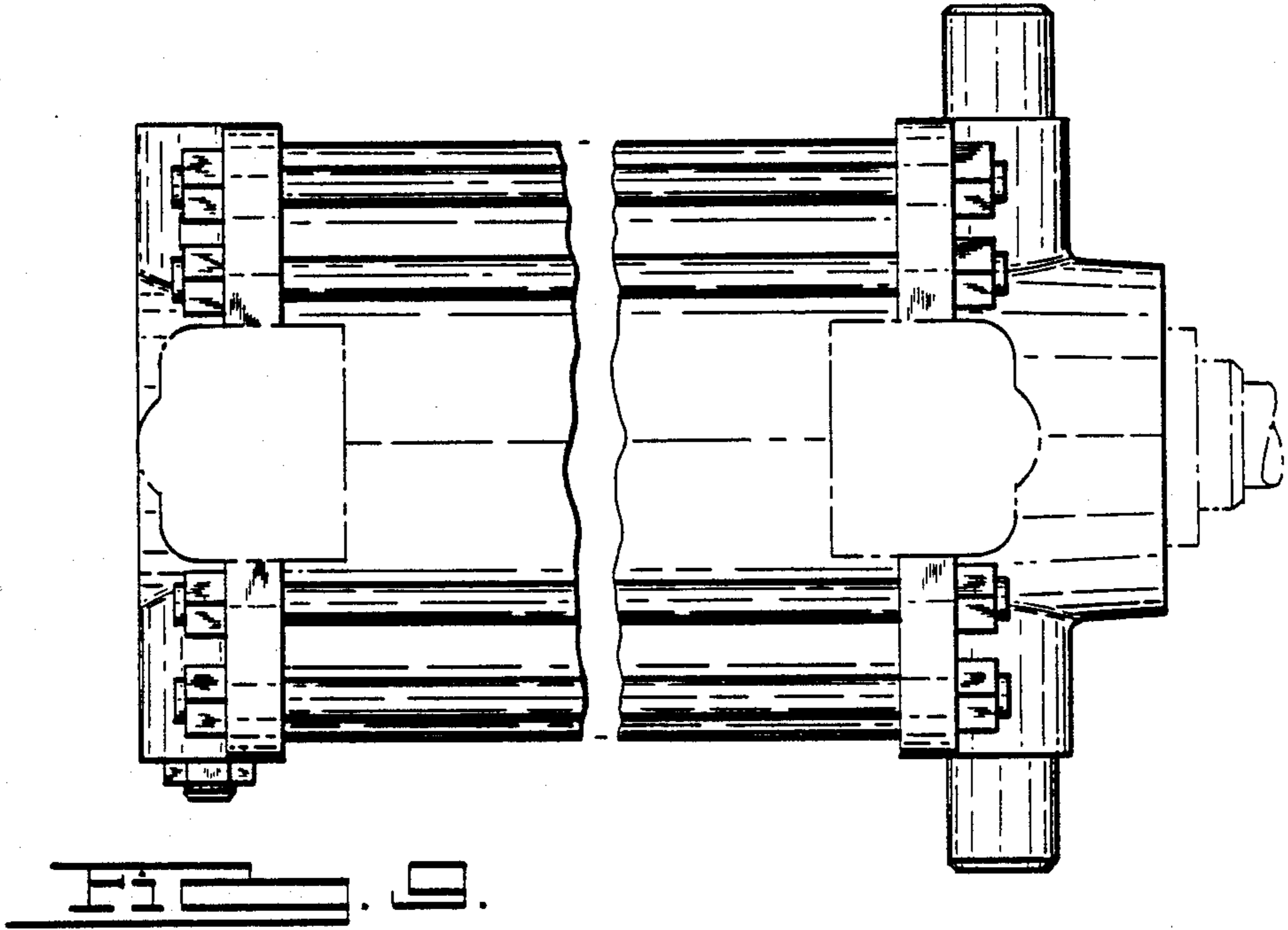


FIG. 6.





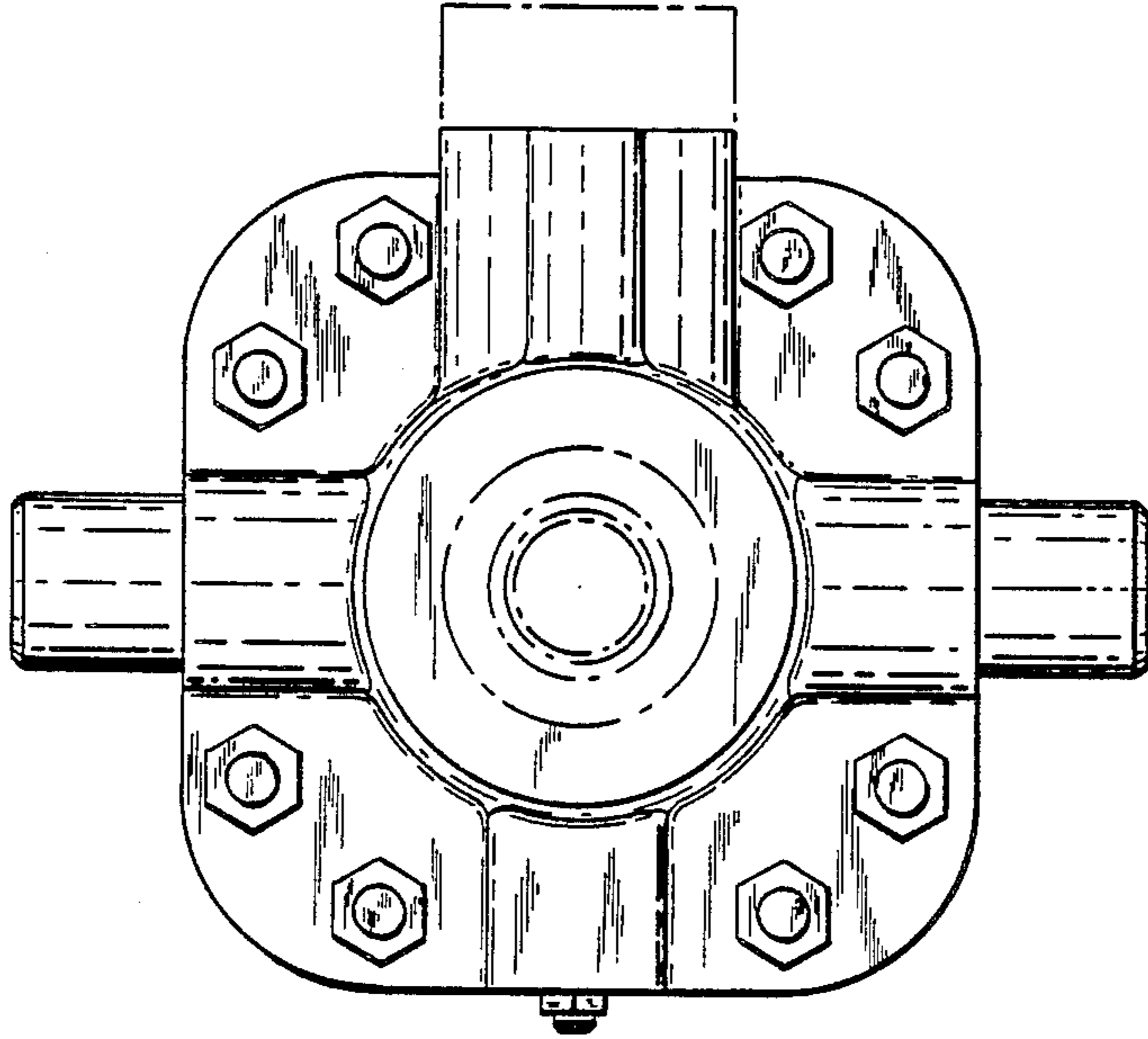


FIG. 11.

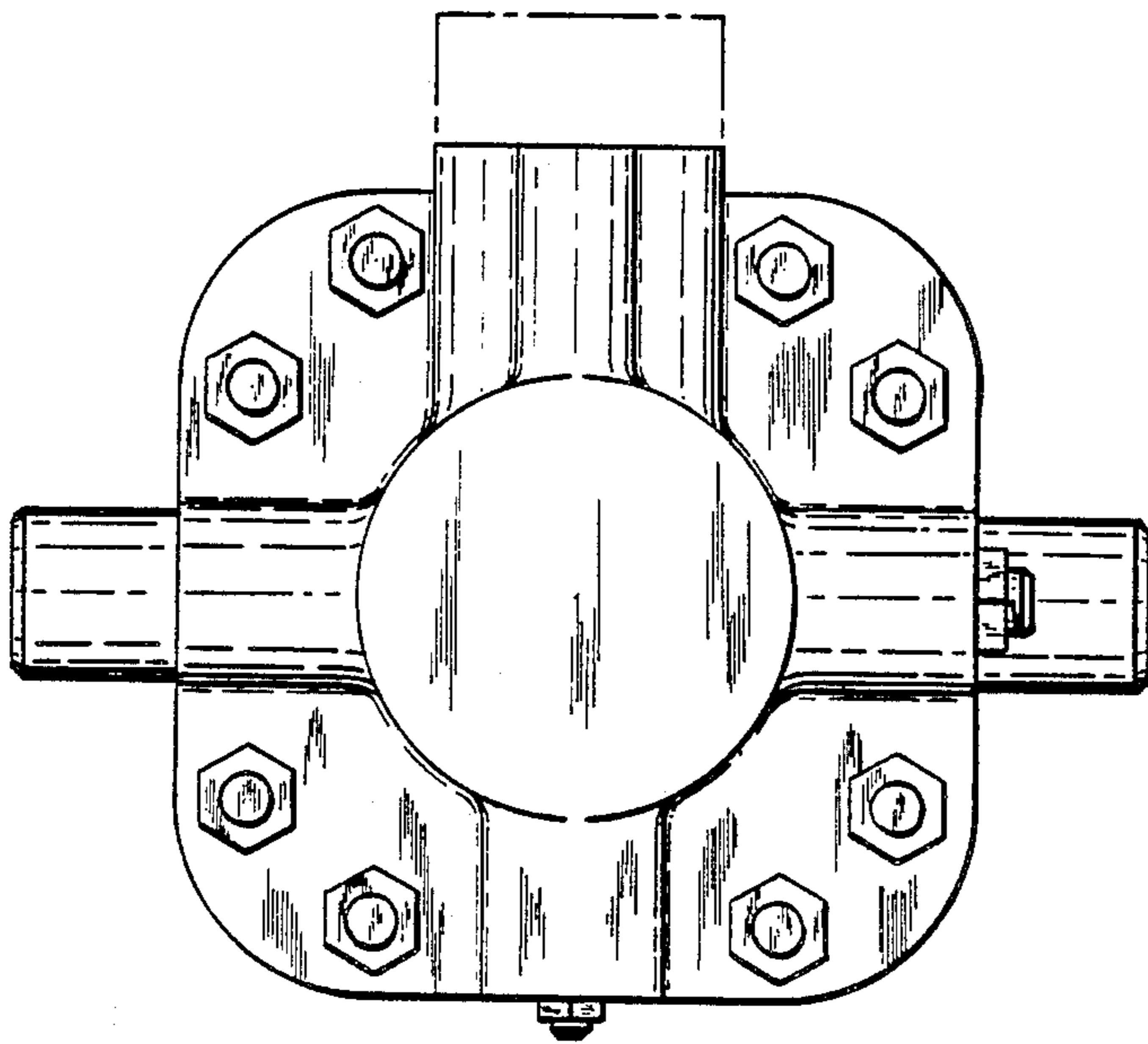


FIG. 12.



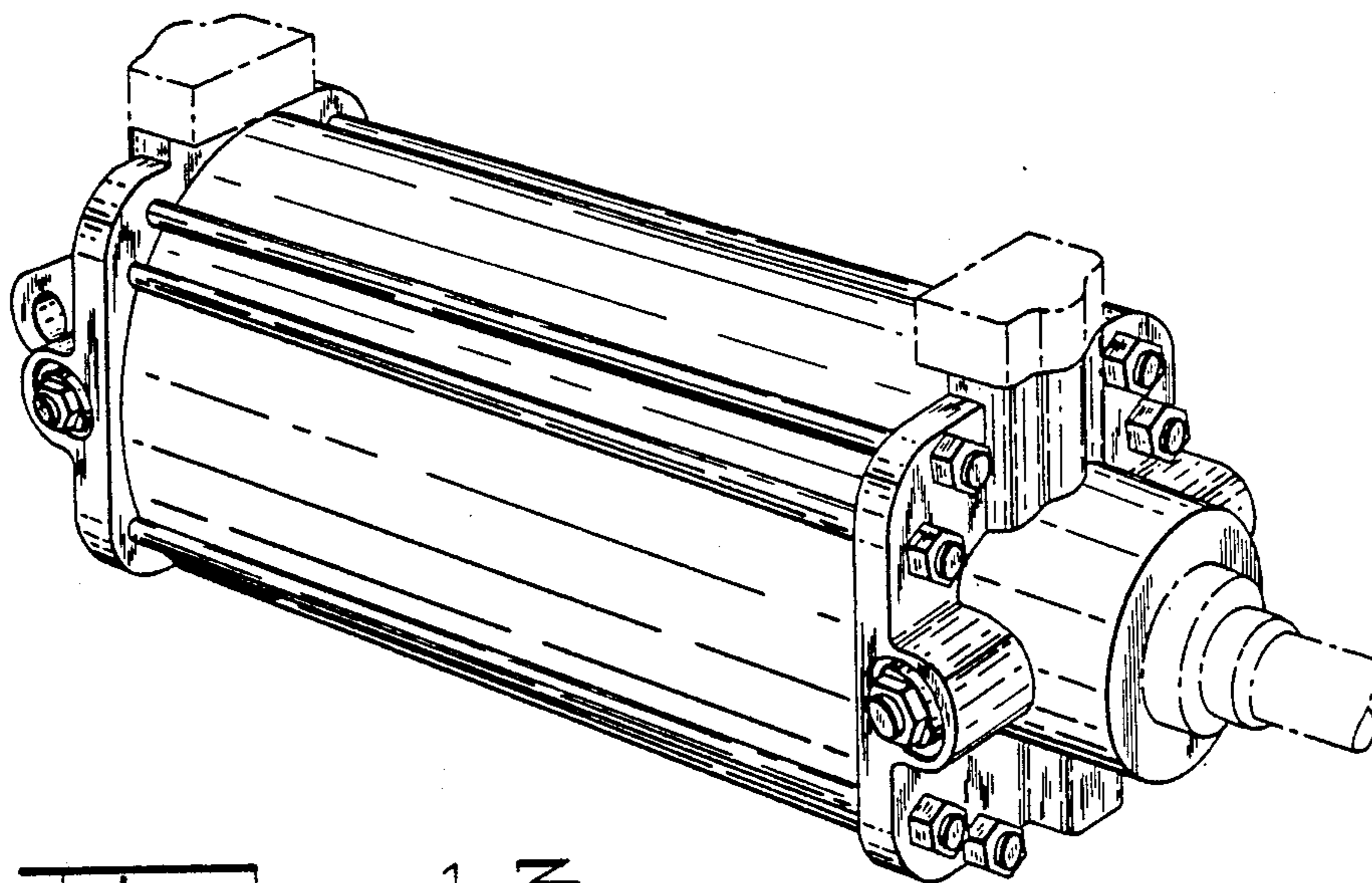


Fig. 13.

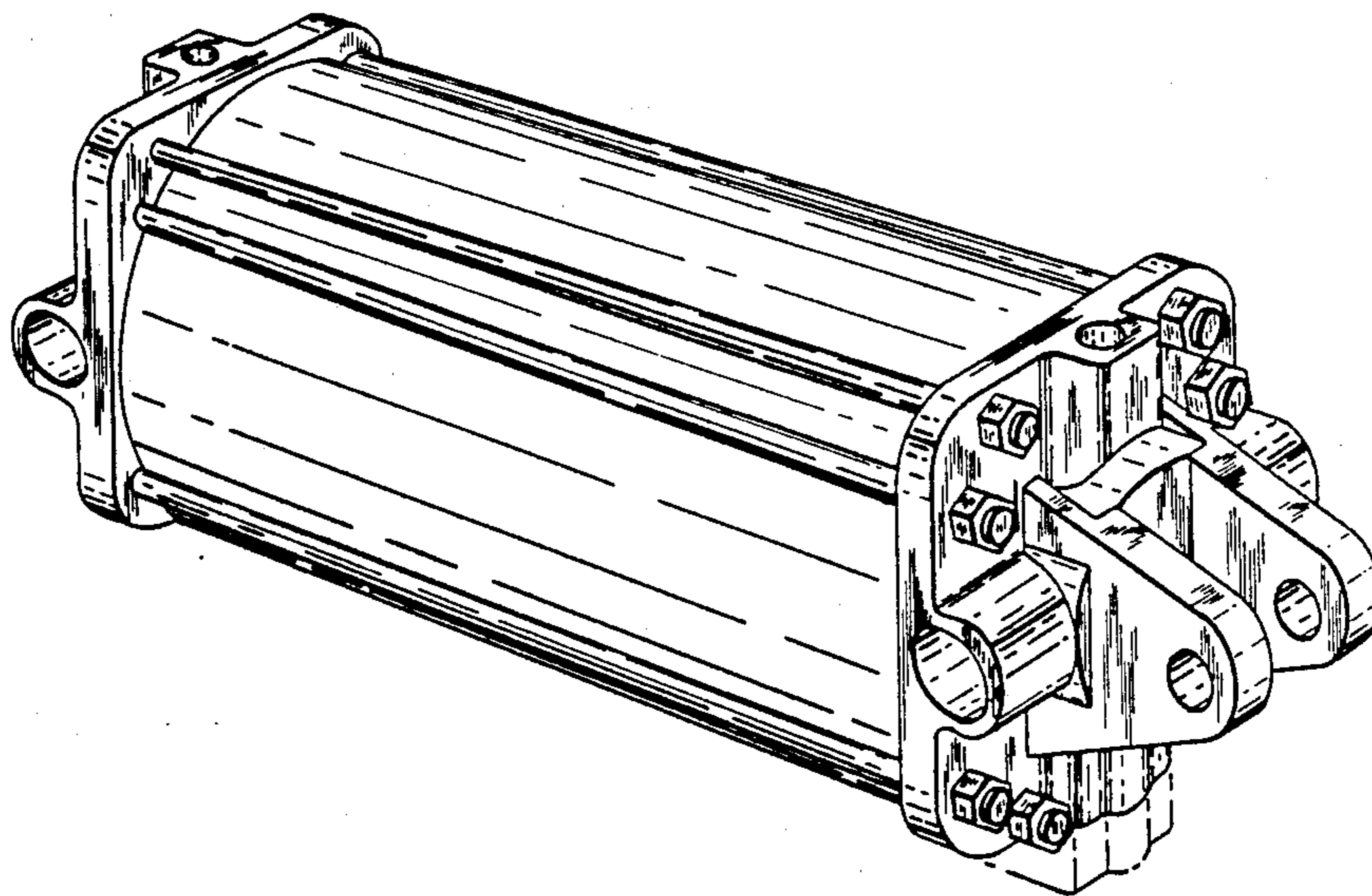


Fig. 14.

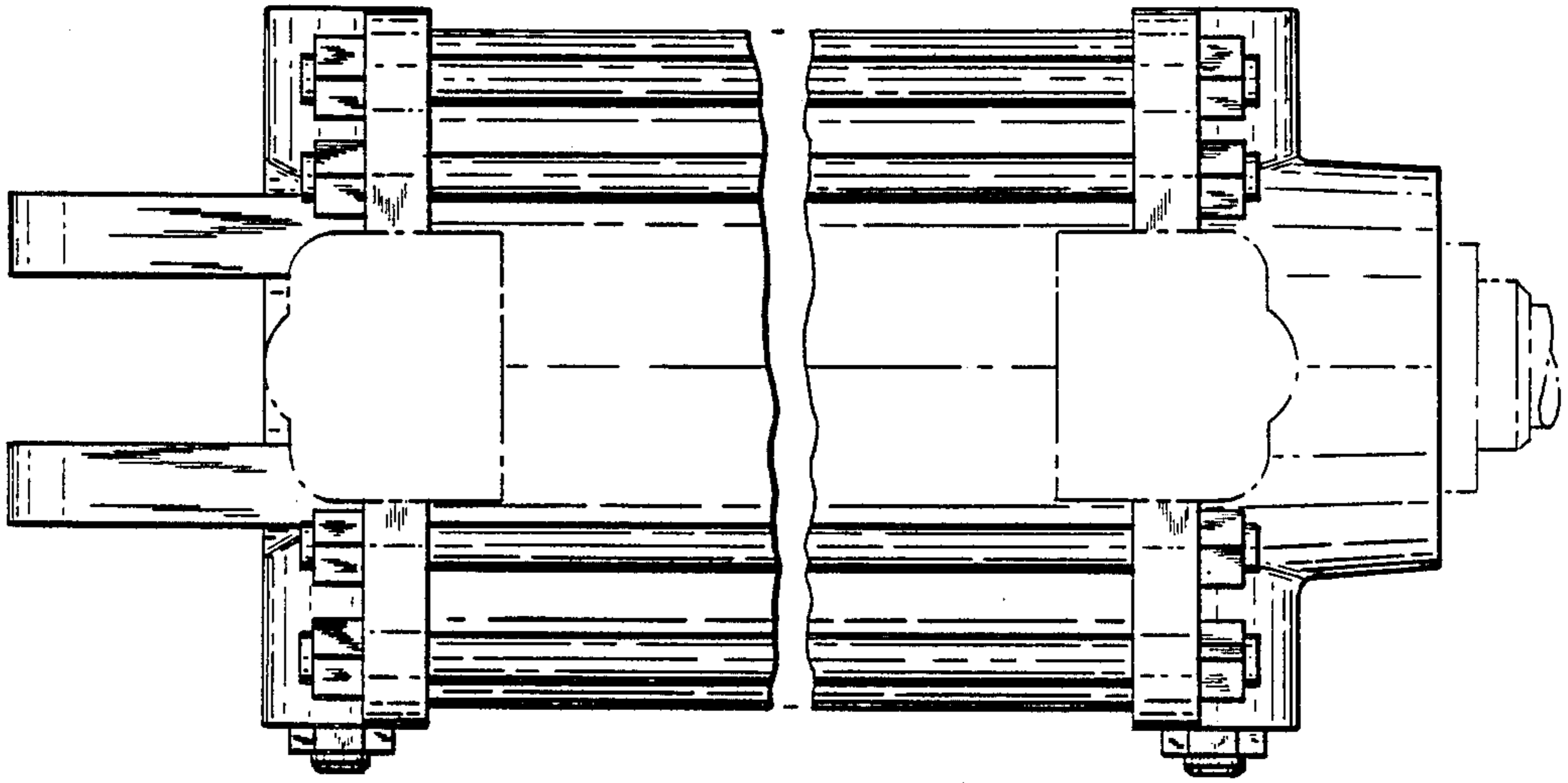
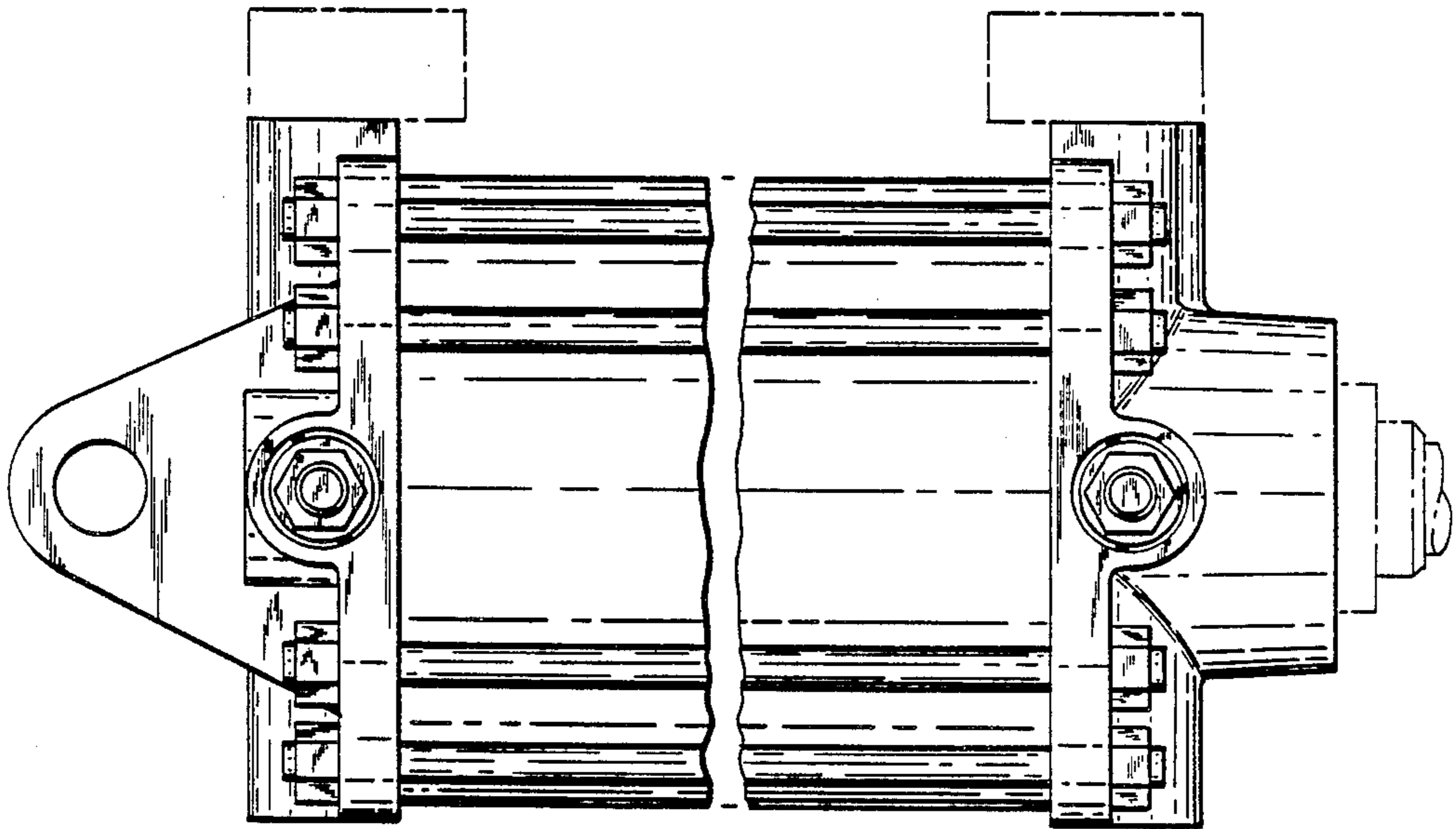


FIG. 15.

FIG. 16.



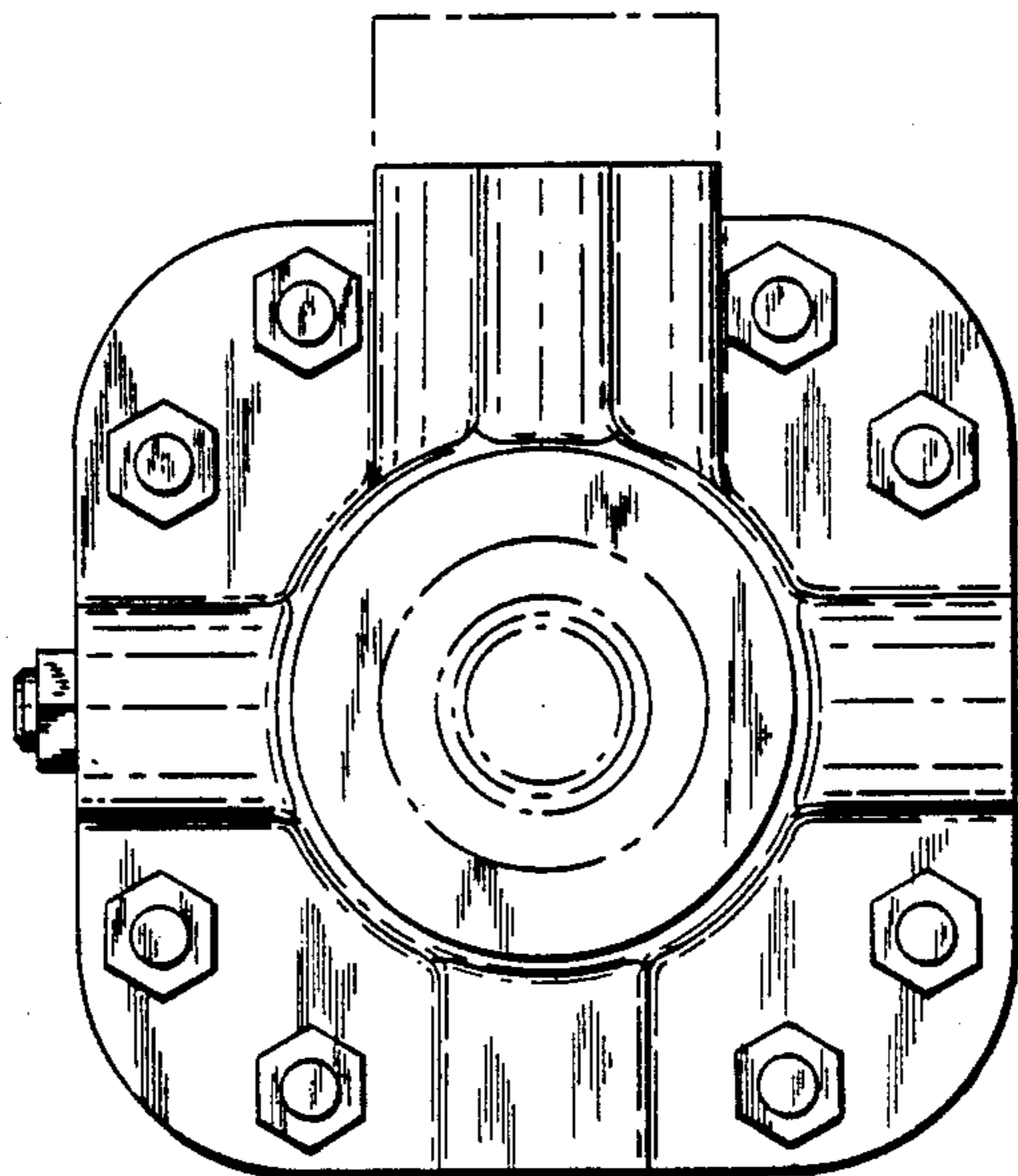


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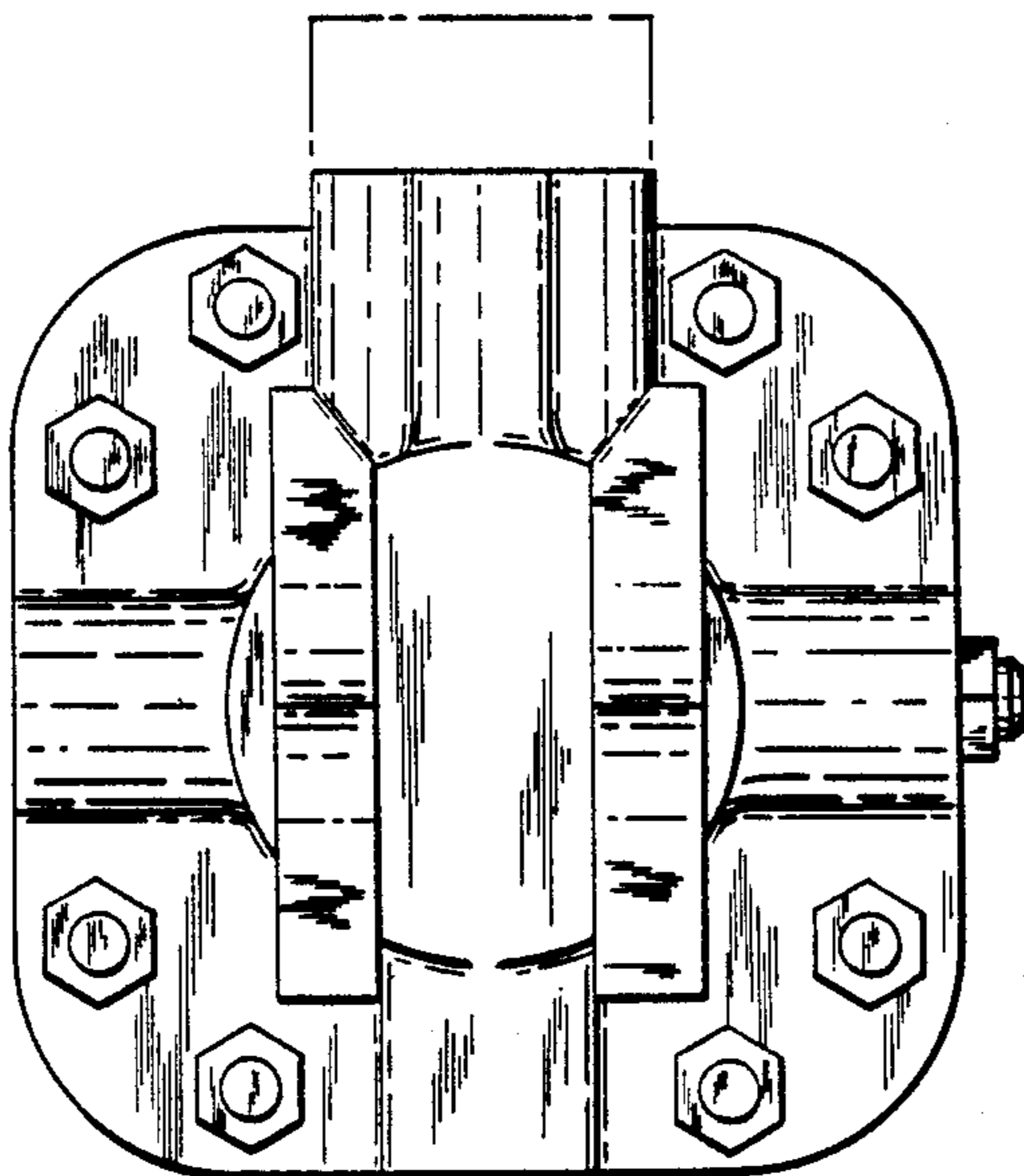


FIG. 18.

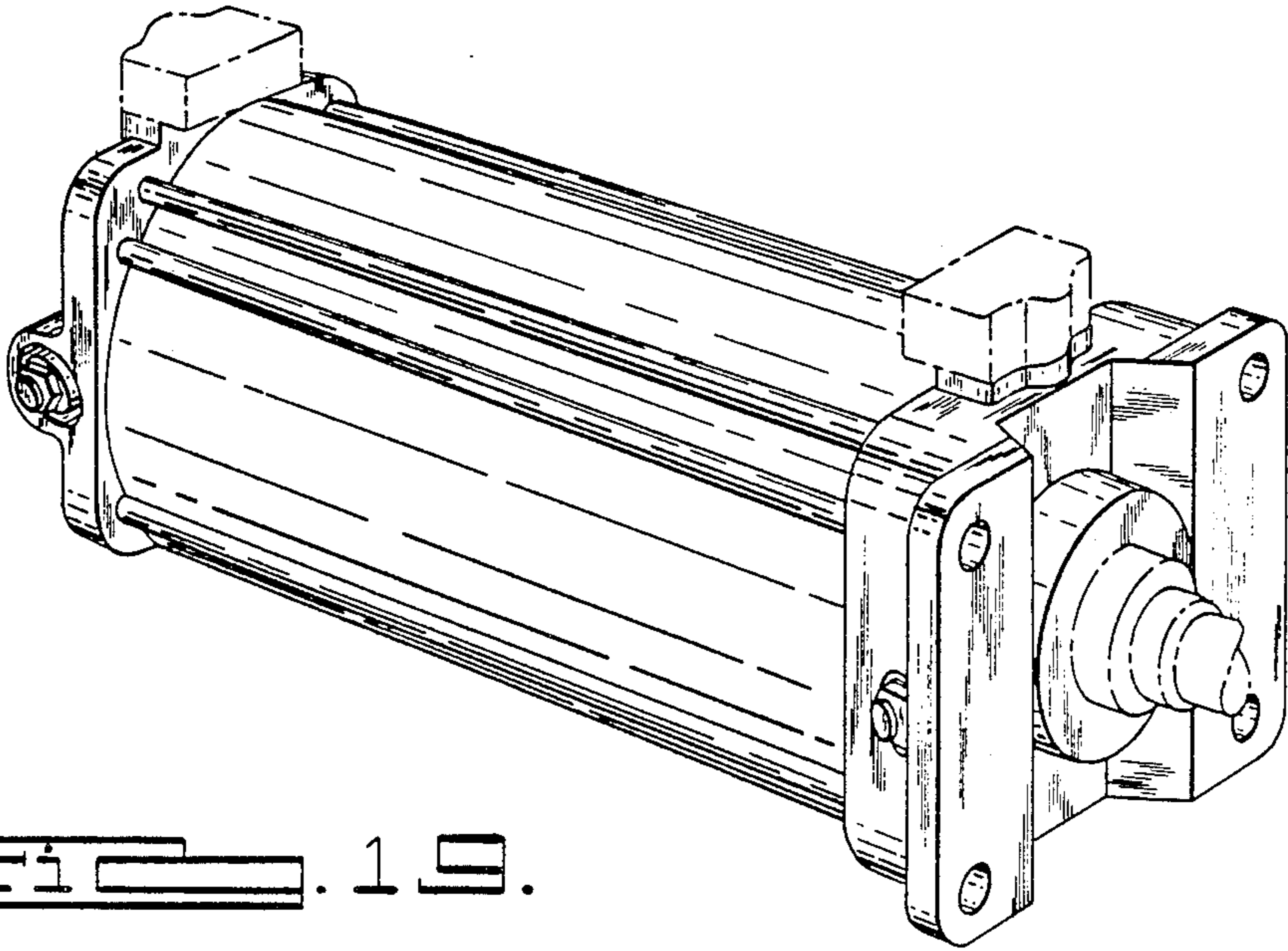


Fig. 19.

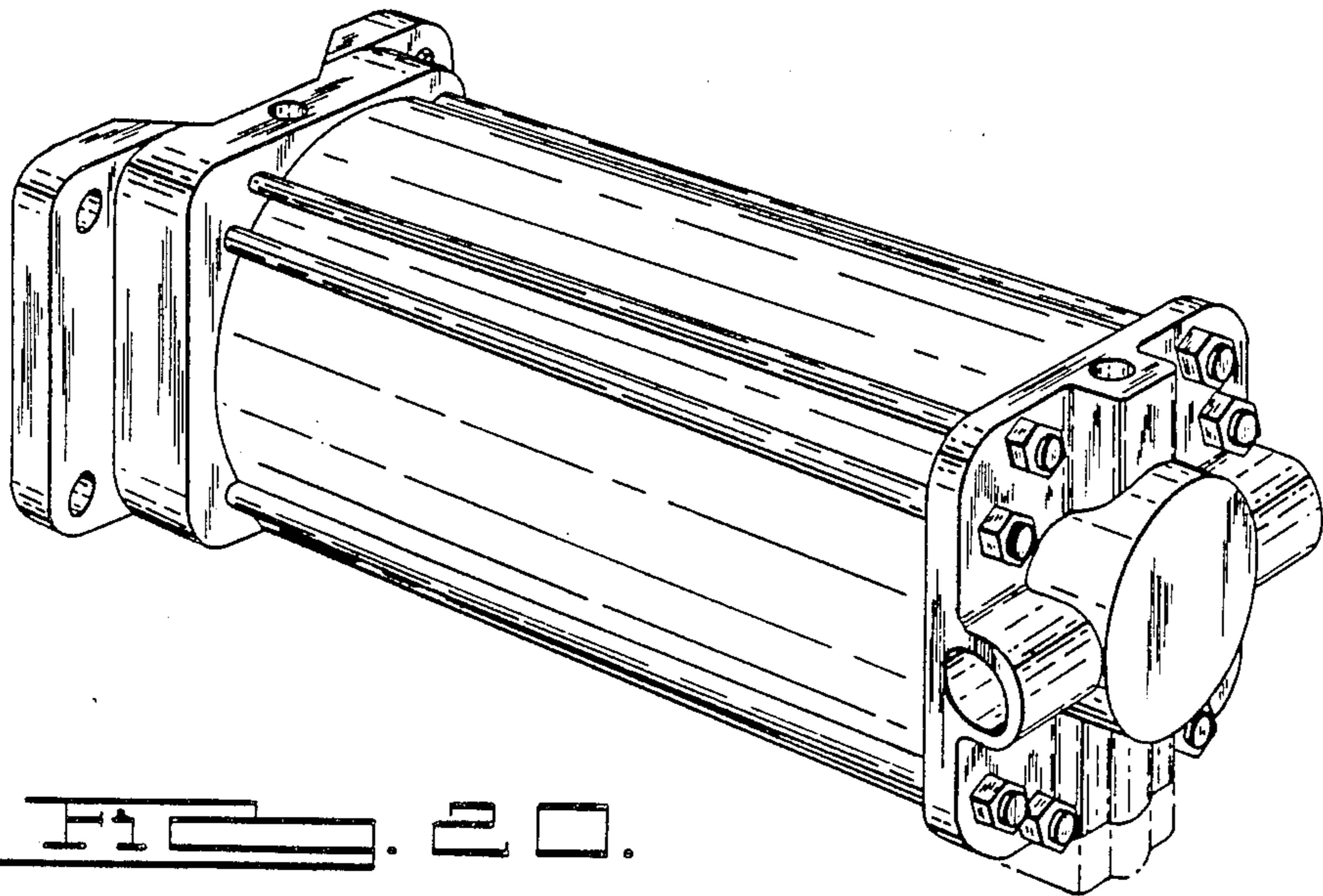


Fig. 20.

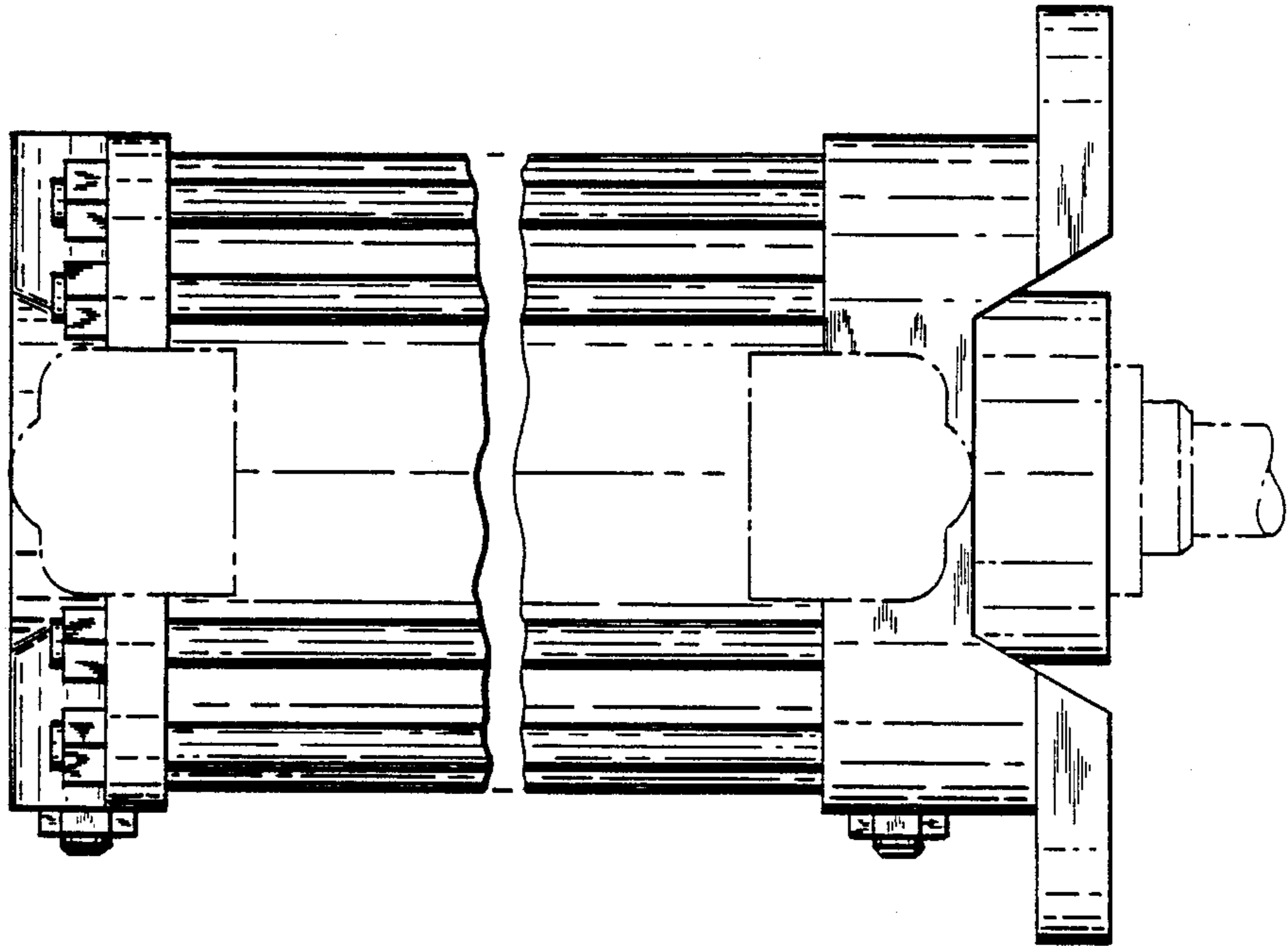
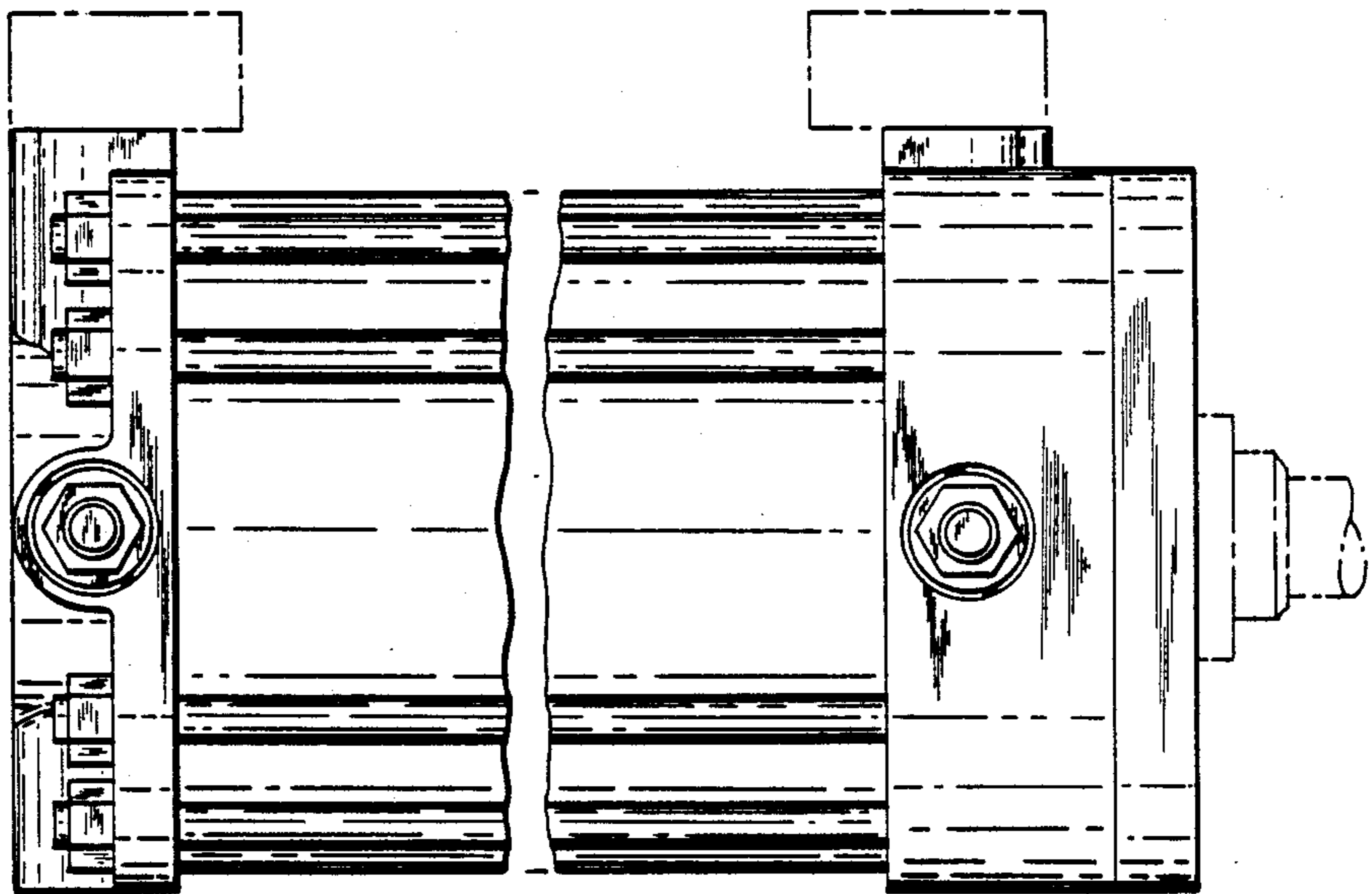


FIG. 1.

FIG. 2.



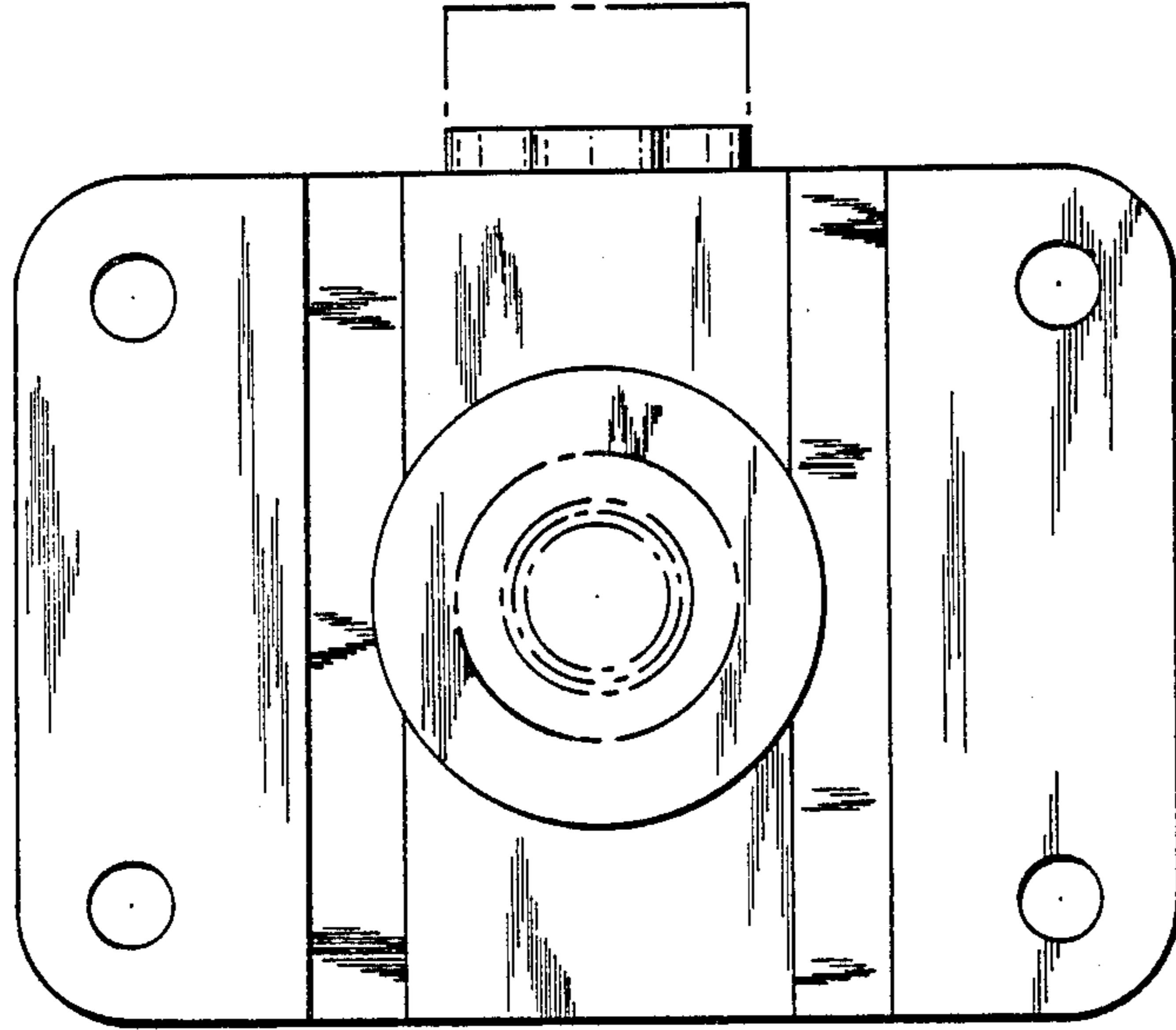


FIG. 23.

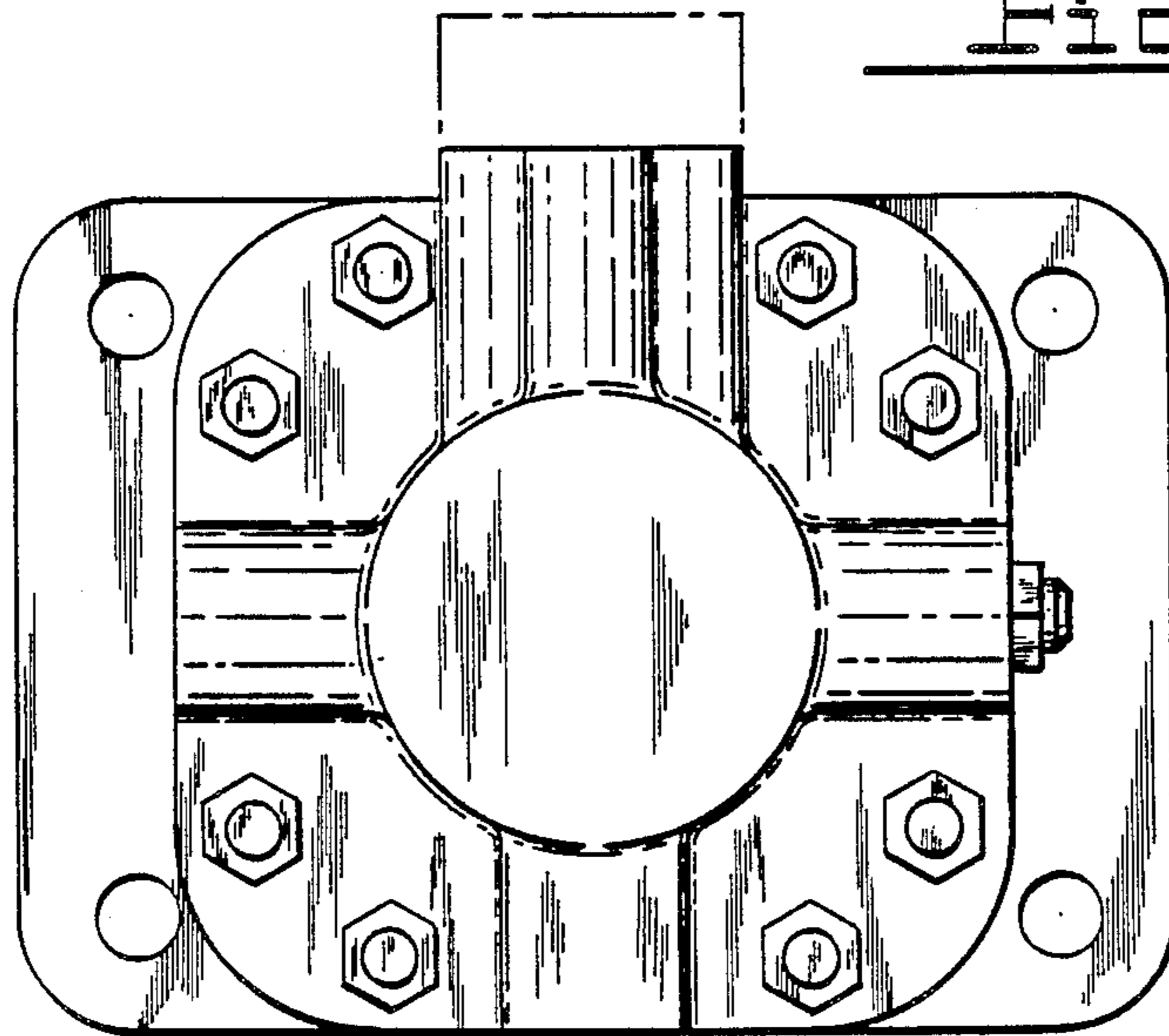


FIG. 24.

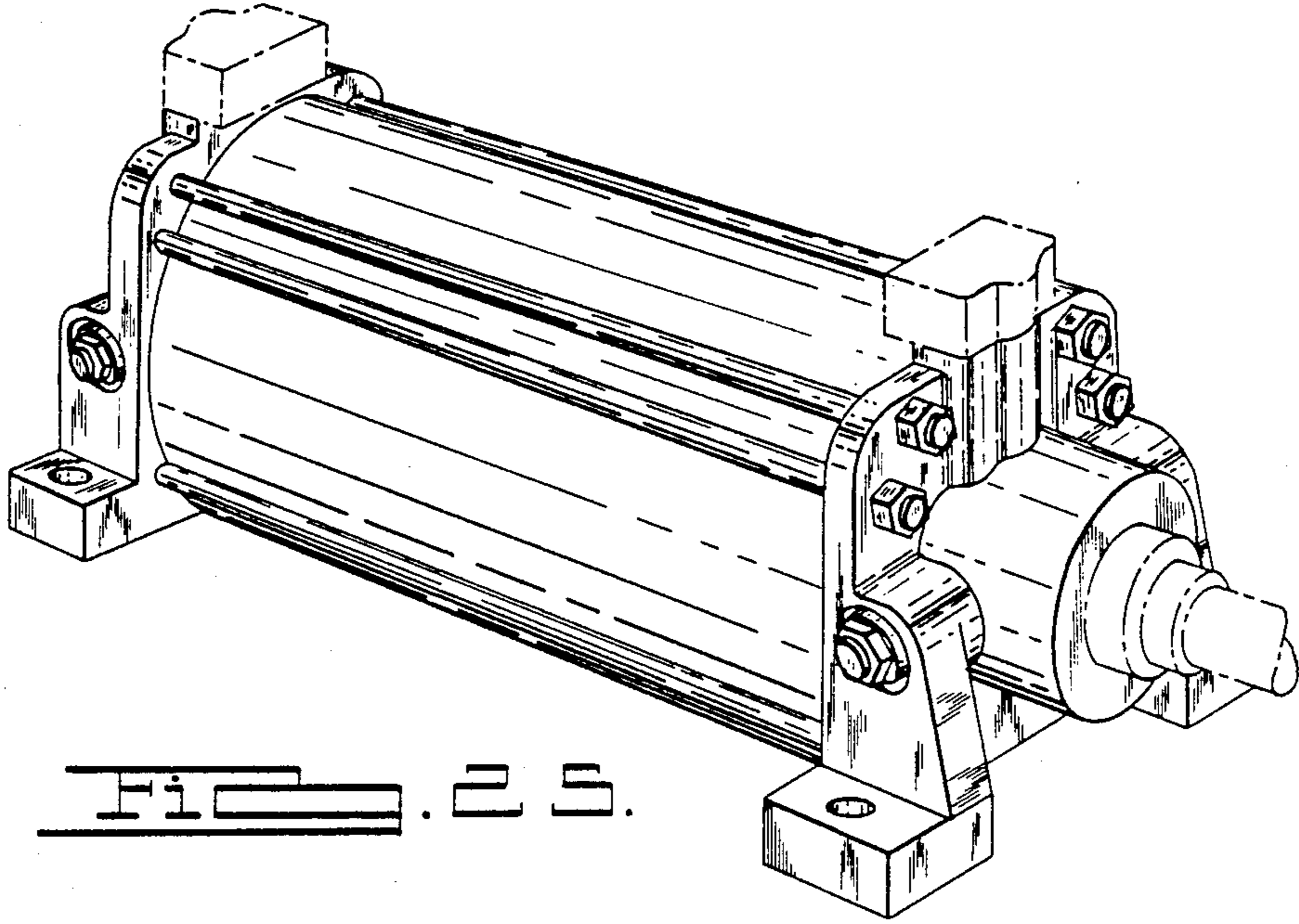


FIG. 25.

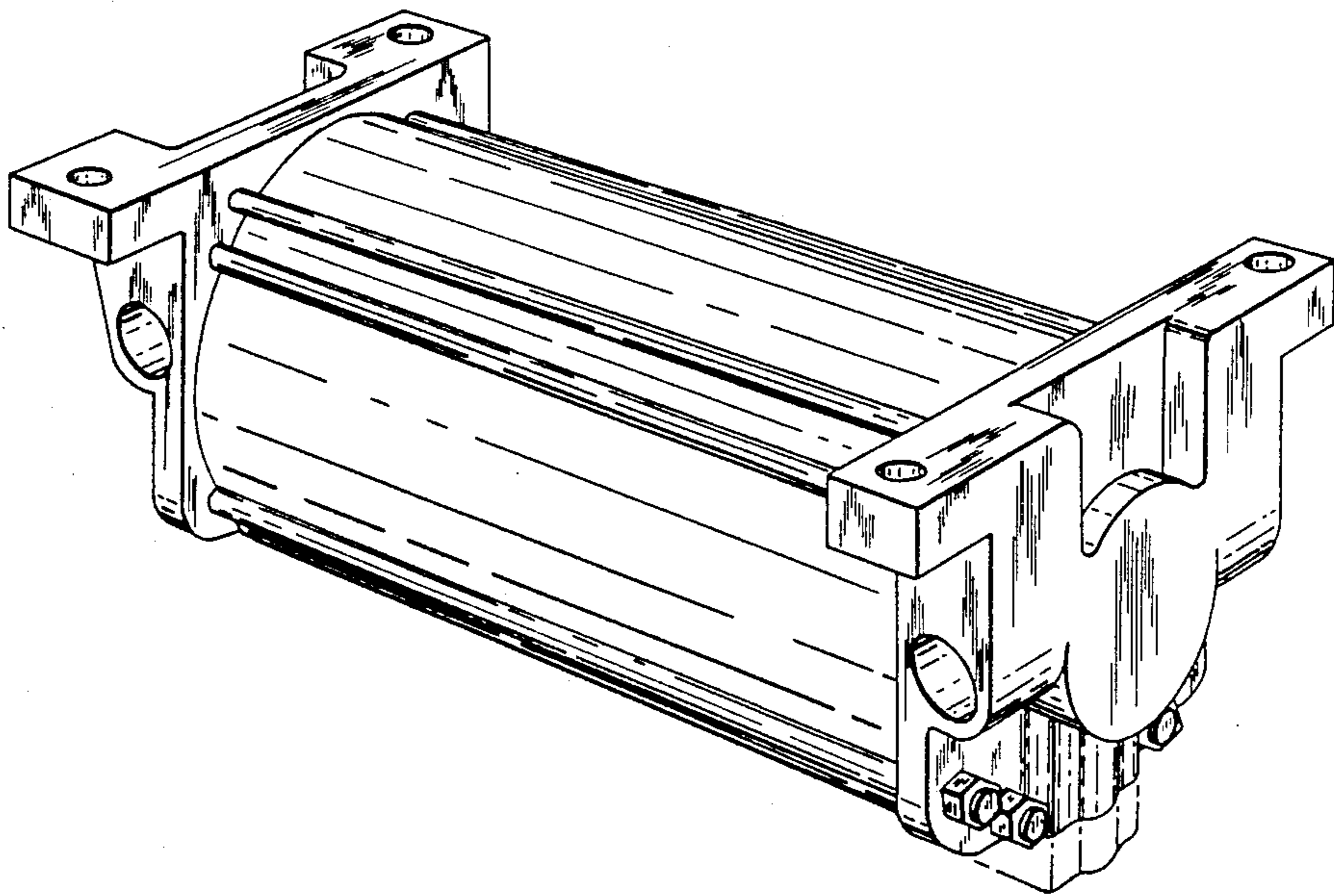


FIG. 26.

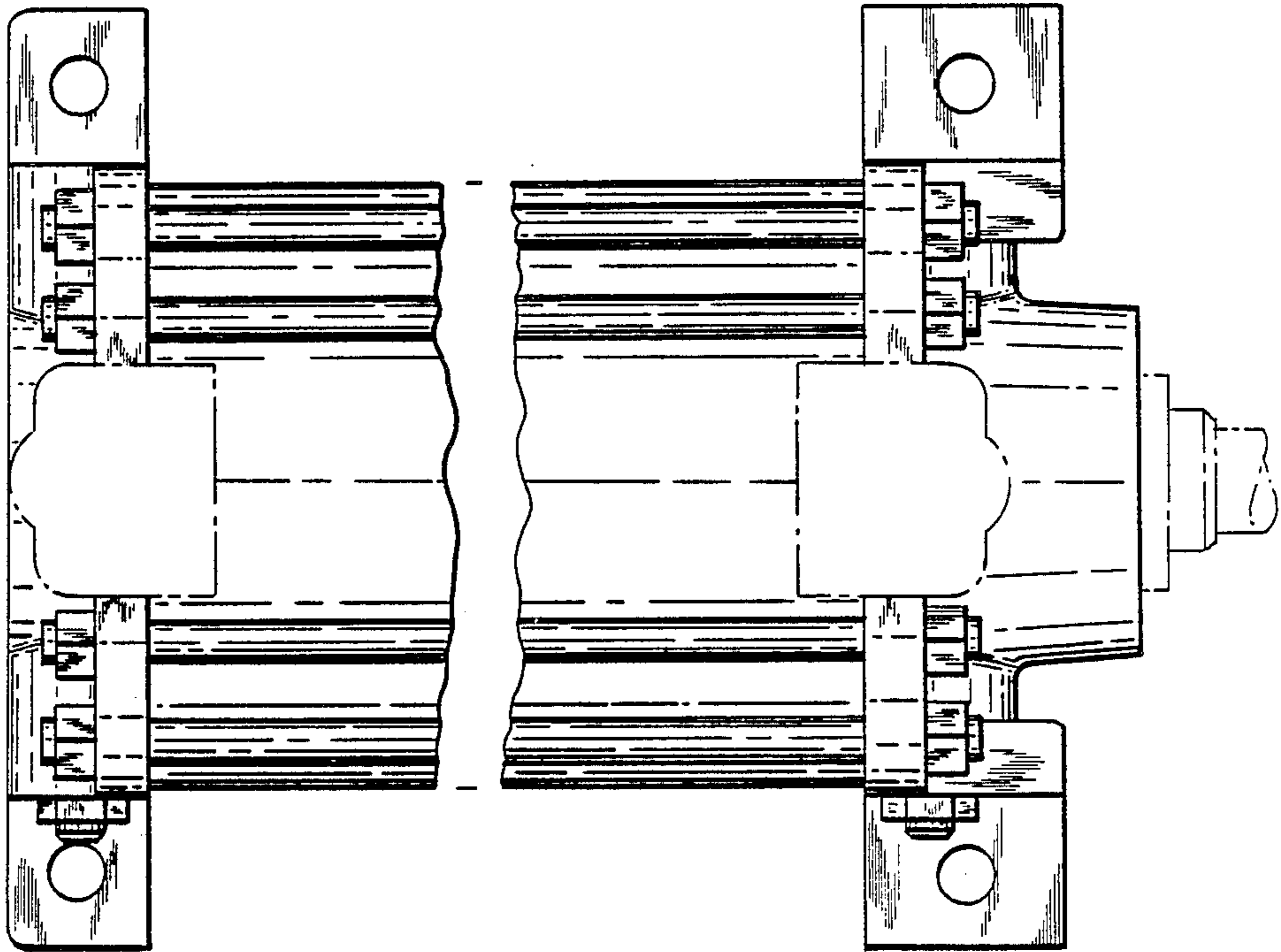
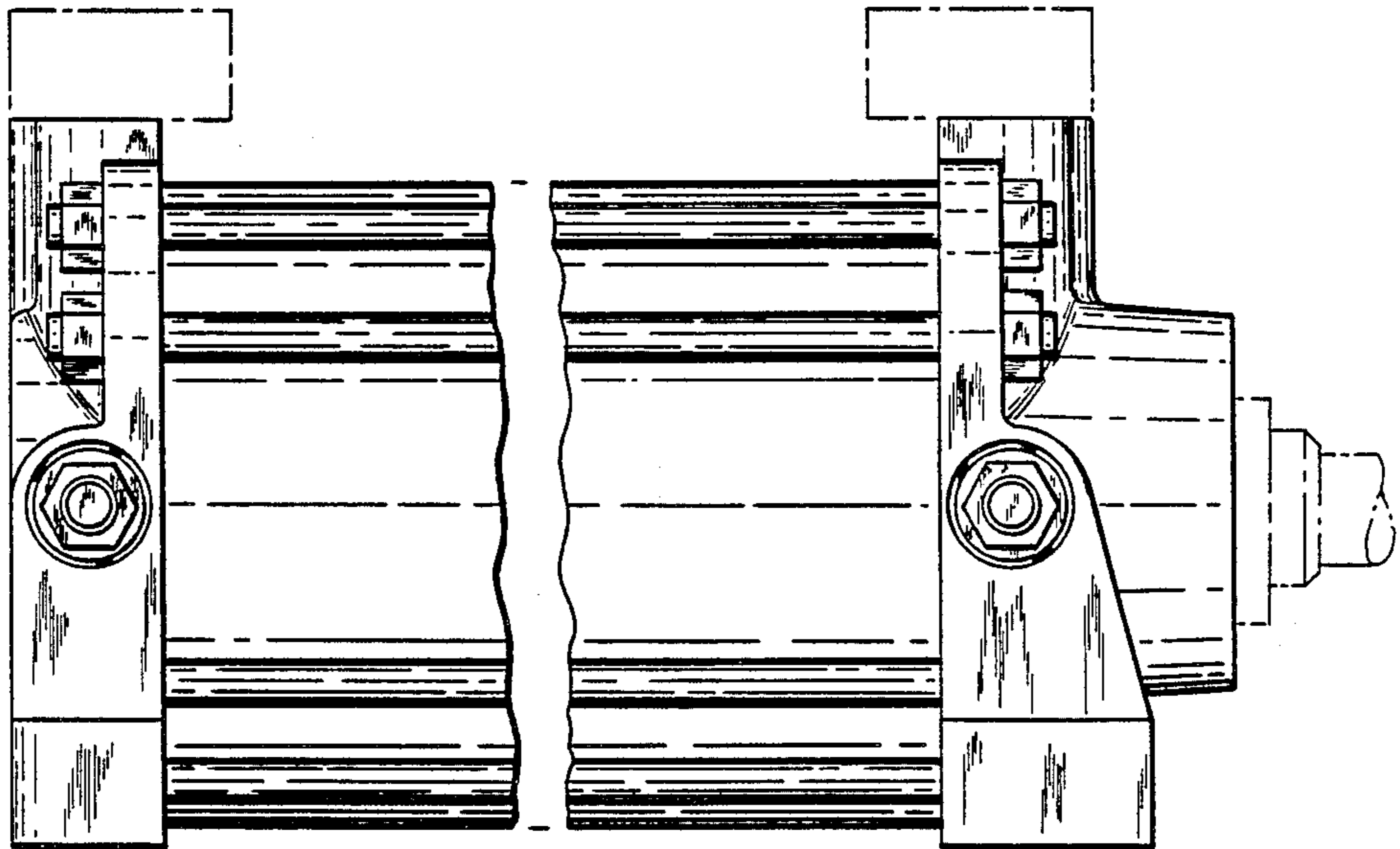


FIG. 27.

FIG. 28.





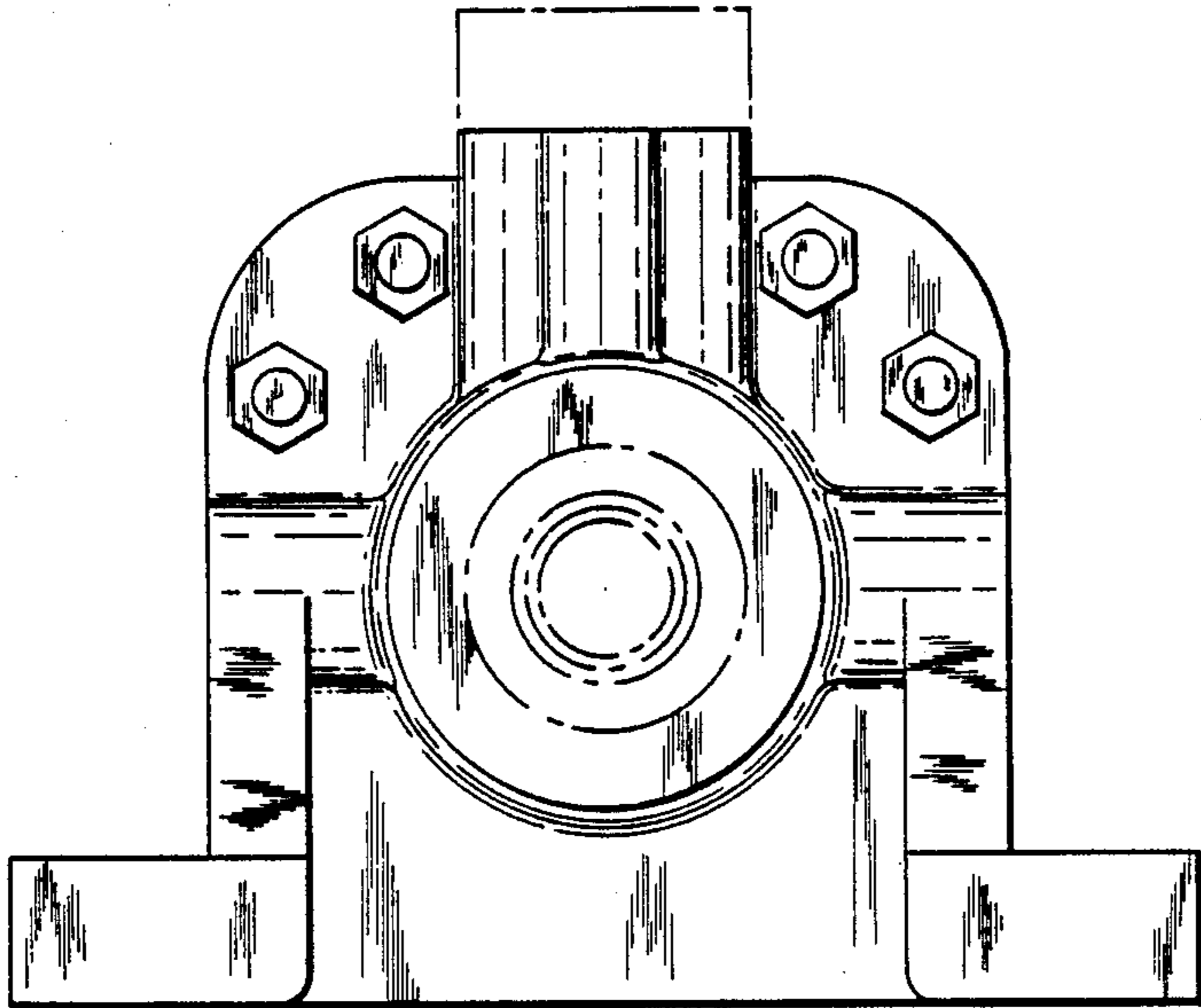


FIG. 29.

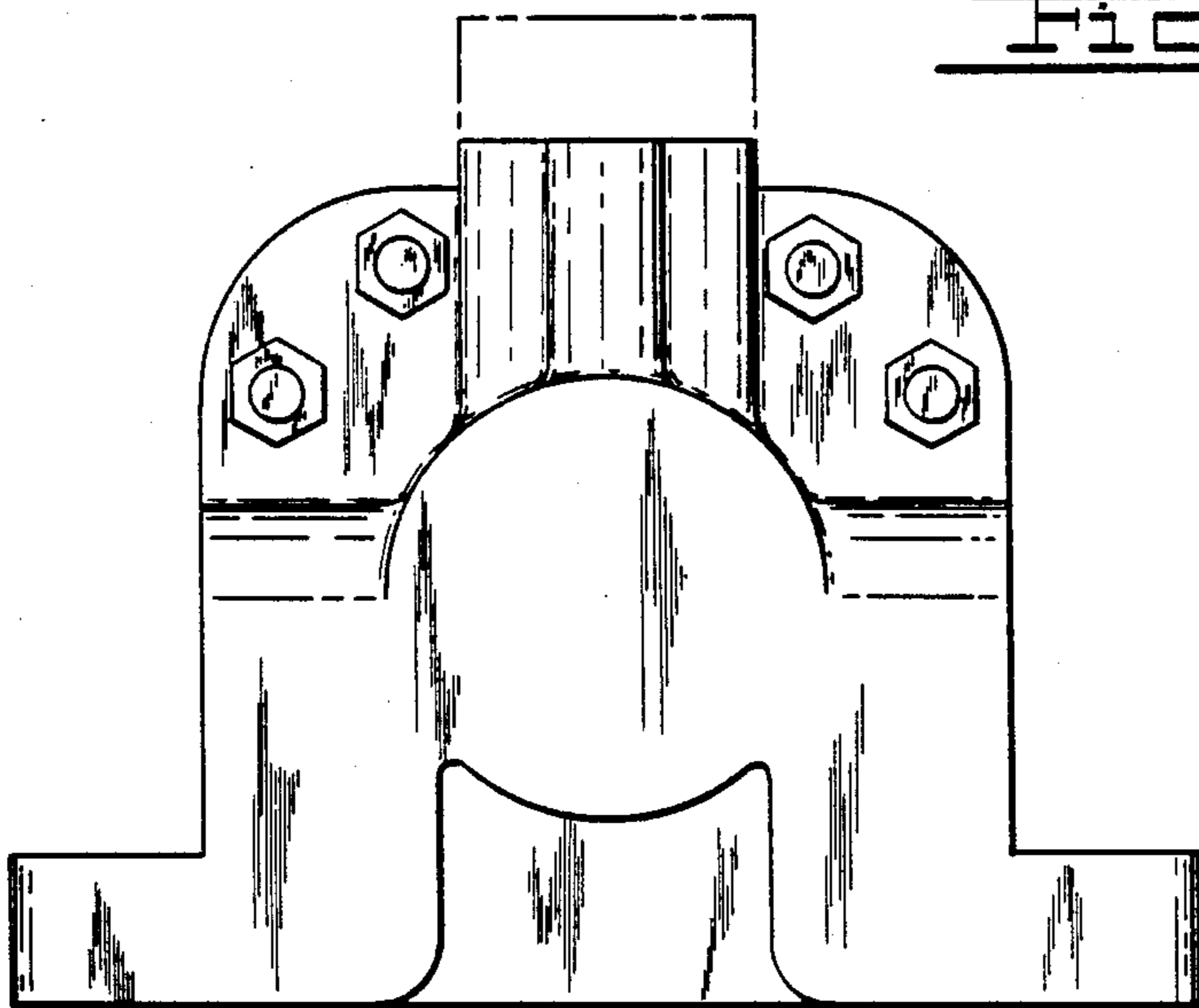


FIG. 30.