

US00D388796S

United States Patent [19]

Conti et al.

[11] Patent Number: Des. 388,796

[45] Date of Patent: **Jan. 6, 1998

[54] **DIAPHRAGM PUMP**

[75] Inventors: **Michael Conti; Gerald M. Distel**, both of Bryan, Ohio

[73] Assignee: **Ingersoll-Rand Company**, Woodcliff Lake, N.J.

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

[21] Appl. No.: **63,289**

[22] Filed: **Dec. 4, 1996**

[51] LOC (6) Cl. **15-02**

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

[58] Field of Search D15/7-9; 417/393-397, 417/454; 92/123, 98 R; 418/70

[56] **References Cited**

U.S. PATENT DOCUMENTS

| | | | | |
|------------|---------|-----------|-------|-------|
| D. 229,236 | 11/1973 | Doolin | ..... | D15/7 |
| D. 243,796 | 3/1977 | Pareja | ..... | D15/7 |
| D. 268,413 | 3/1983 | Wilden | ..... | D15/7 |
| D. 270,640 | 9/1983 | Hollander | ..... | D15/7 |
| D. 275,858 | 10/1984 | Wilden | ..... | D15/7 |
| D. 291,319 | 8/1987 | Hicks | ..... | D15/7 |
| D. 294,946 | 3/1988 | Wilden | ..... | D15/7 |
| D. 294,947 | 3/1988 | Wilden | ..... | D15/7 |
| D. 331,412 | 12/1992 | Wilden | ..... | D15/7 |

| | | | | |
|------------|--------|----------------|-------|---------|
| D. 370,488 | 6/1996 | Kozumplik, Jr. | ..... | D15/7 |
| 2,679,209 | 5/1954 | Fischer et al. | ..... | 103/150 |
| 3,791,768 | 2/1974 | Wanner | ..... | 417/393 |

OTHER PUBLICATIONS

Aro Air Operated Diaphragm Pumps, Form 9333-P, copyright 1993.

Primary Examiner—Ralf Seifert
Attorney, Agent, or Firm—Michael M. Gnibus

[57] **CLAIM**

The ornamental design for a diaphragm pump, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a diaphragm pump showing our new design;

FIG. 2 is a front elevation view thereof;

FIG. 3 is a rear elevation view thereof;

FIG. 4 is a right elevation view thereof;

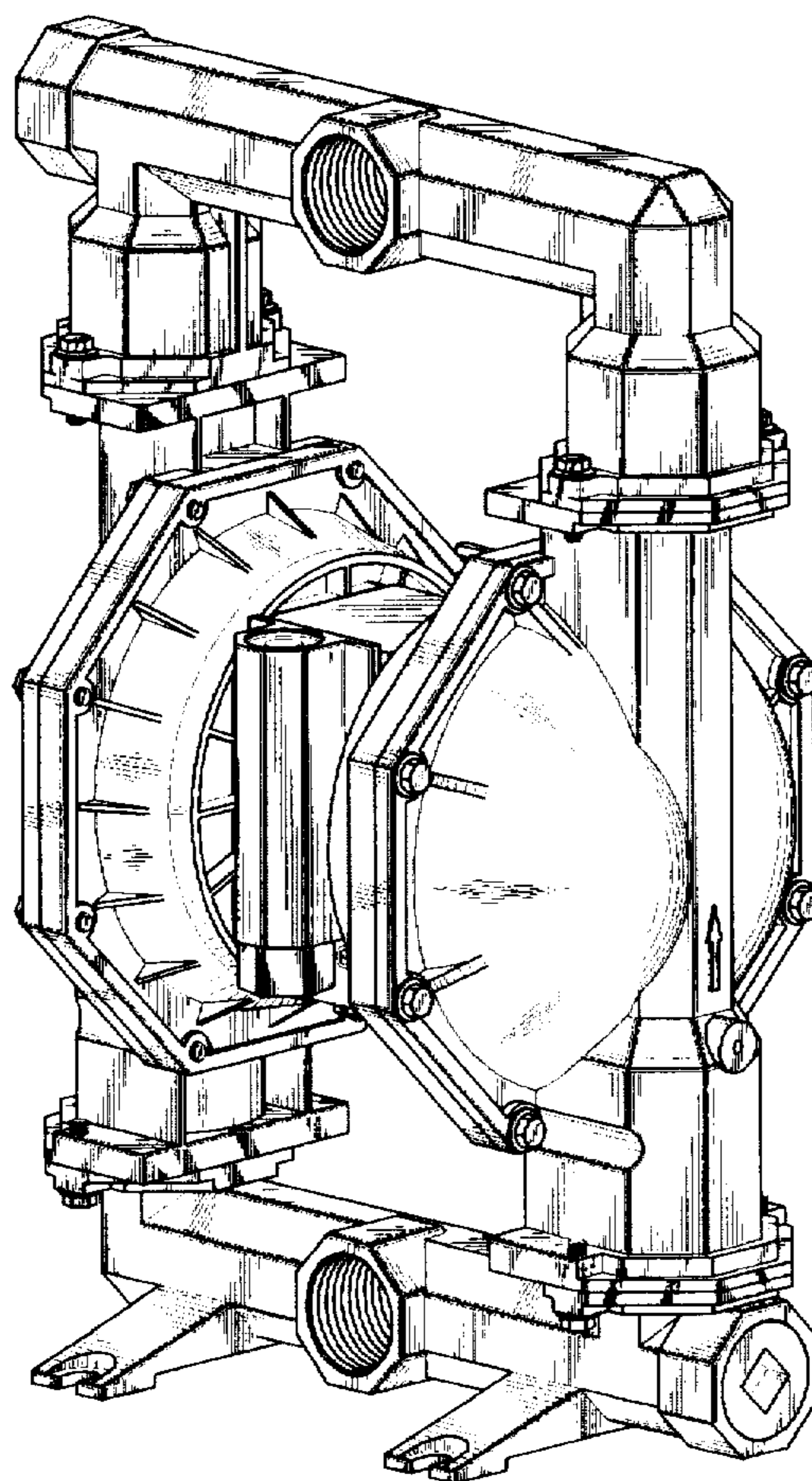
FIG. 5 is a left elevation view thereof;

FIG. 6 is a top plan view thereof; and,

FIG. 7 is a bottom plan view thereof.

The broken line showing of the ball valve cage in FIG. 5 is for illustrative purposes only and forms no part of the claimed design.

1 Claim, 7 Drawing Sheets



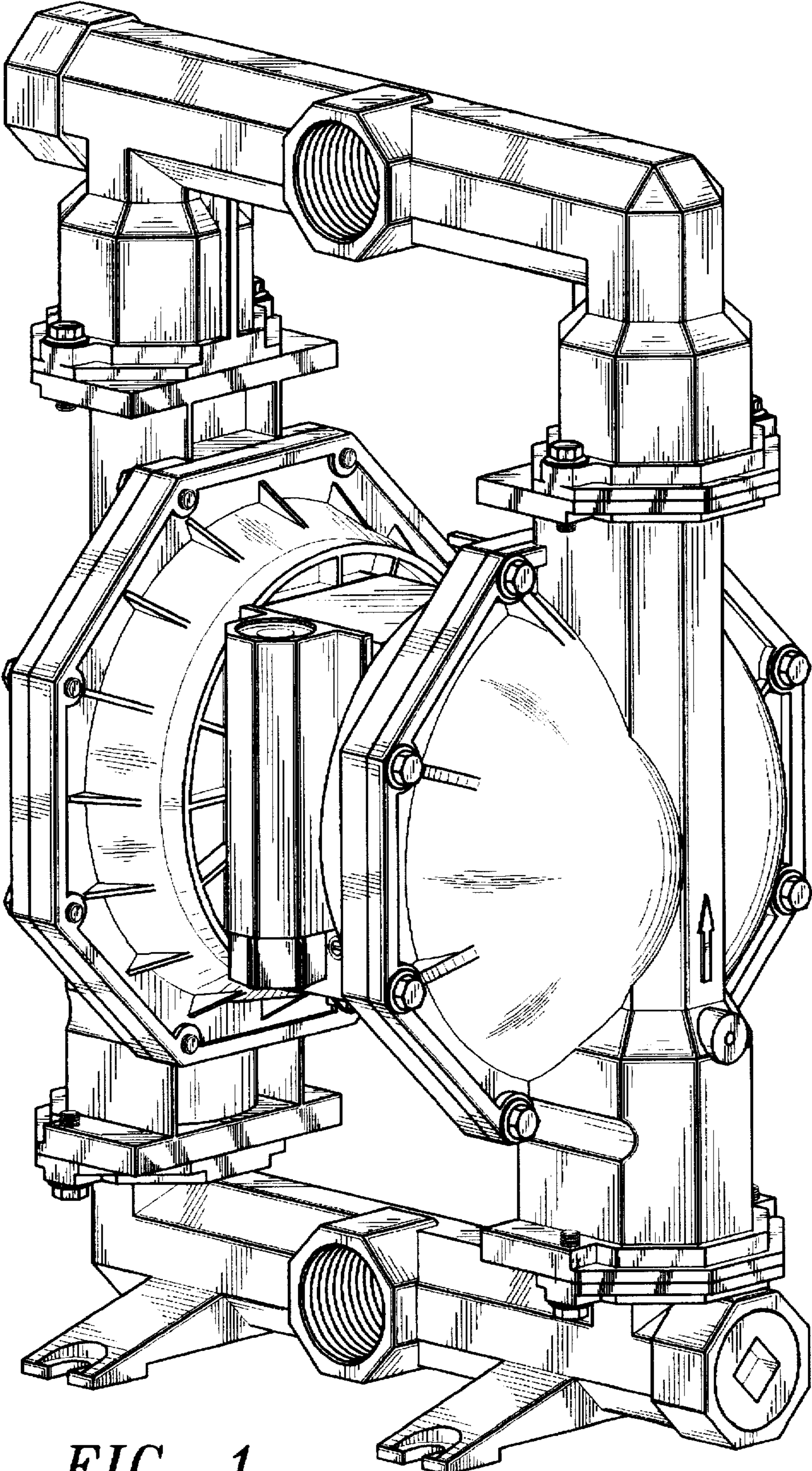


FIG. 1

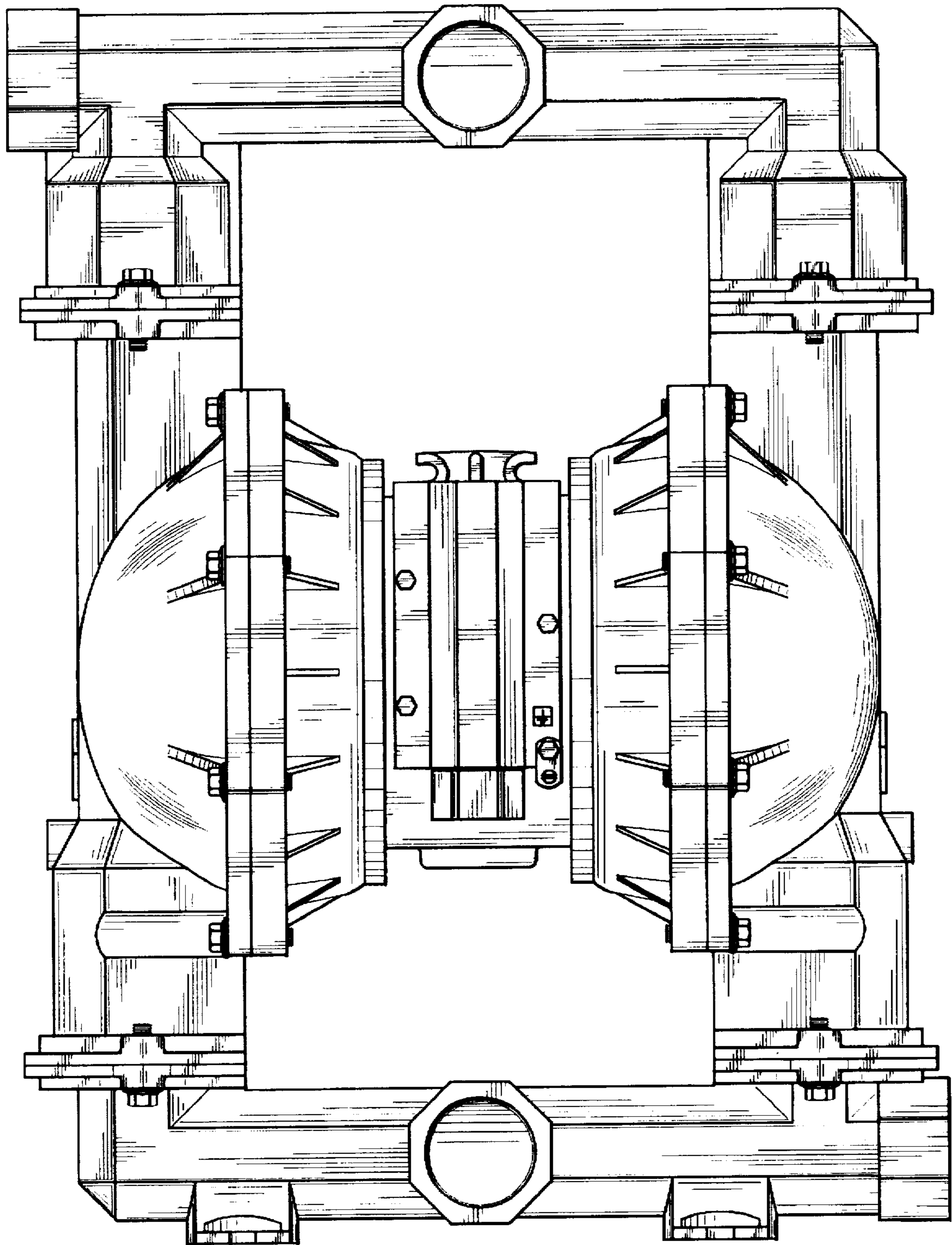


FIG. 2

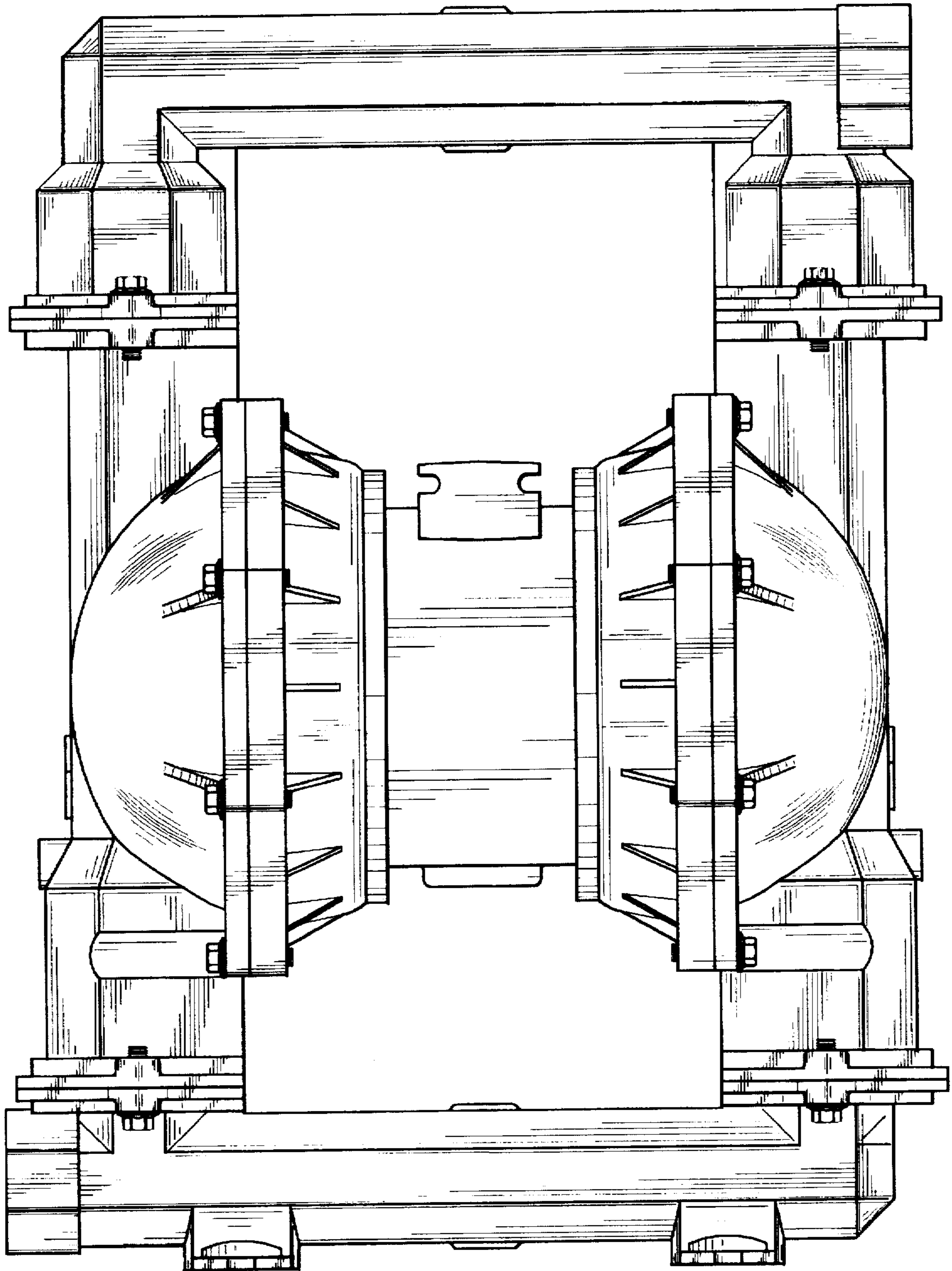


FIG. 3

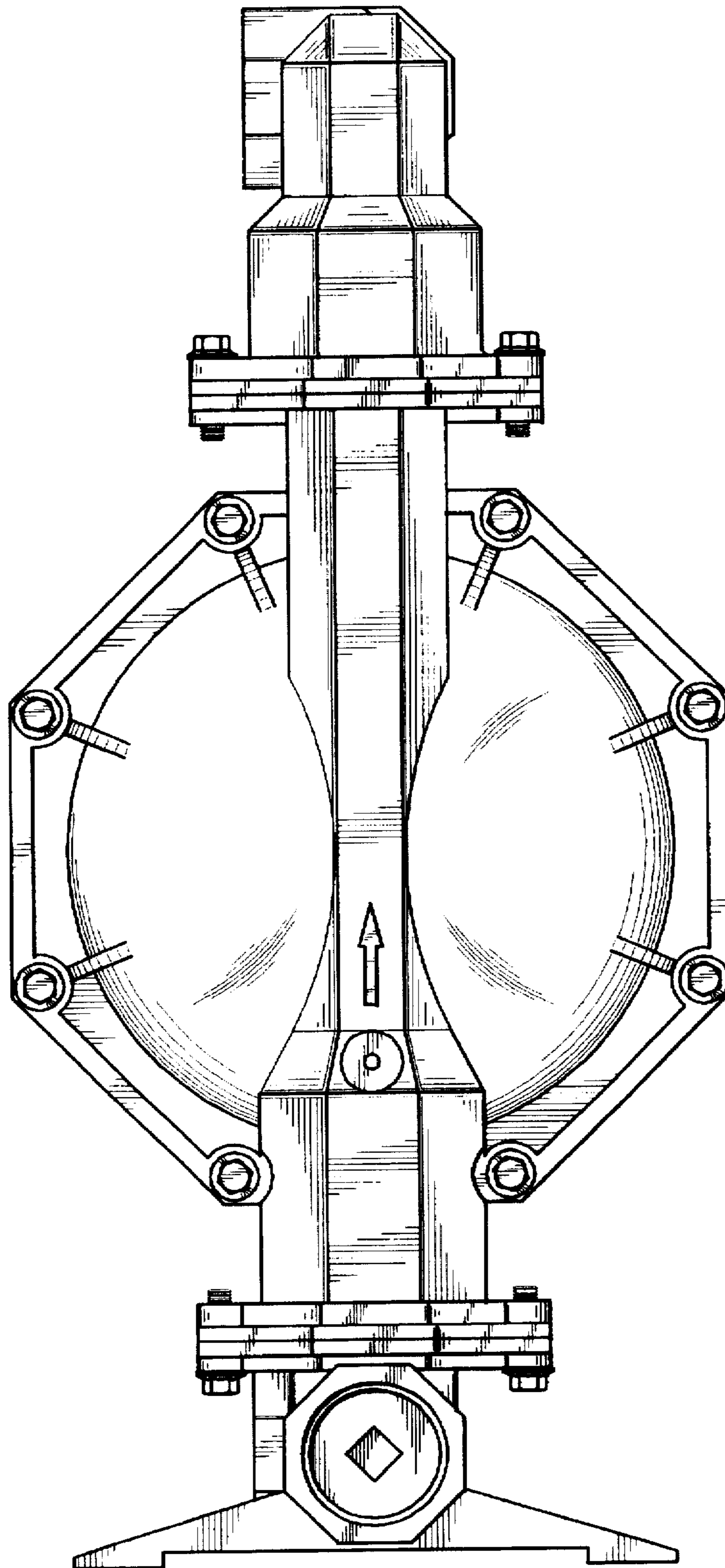


FIG. 4

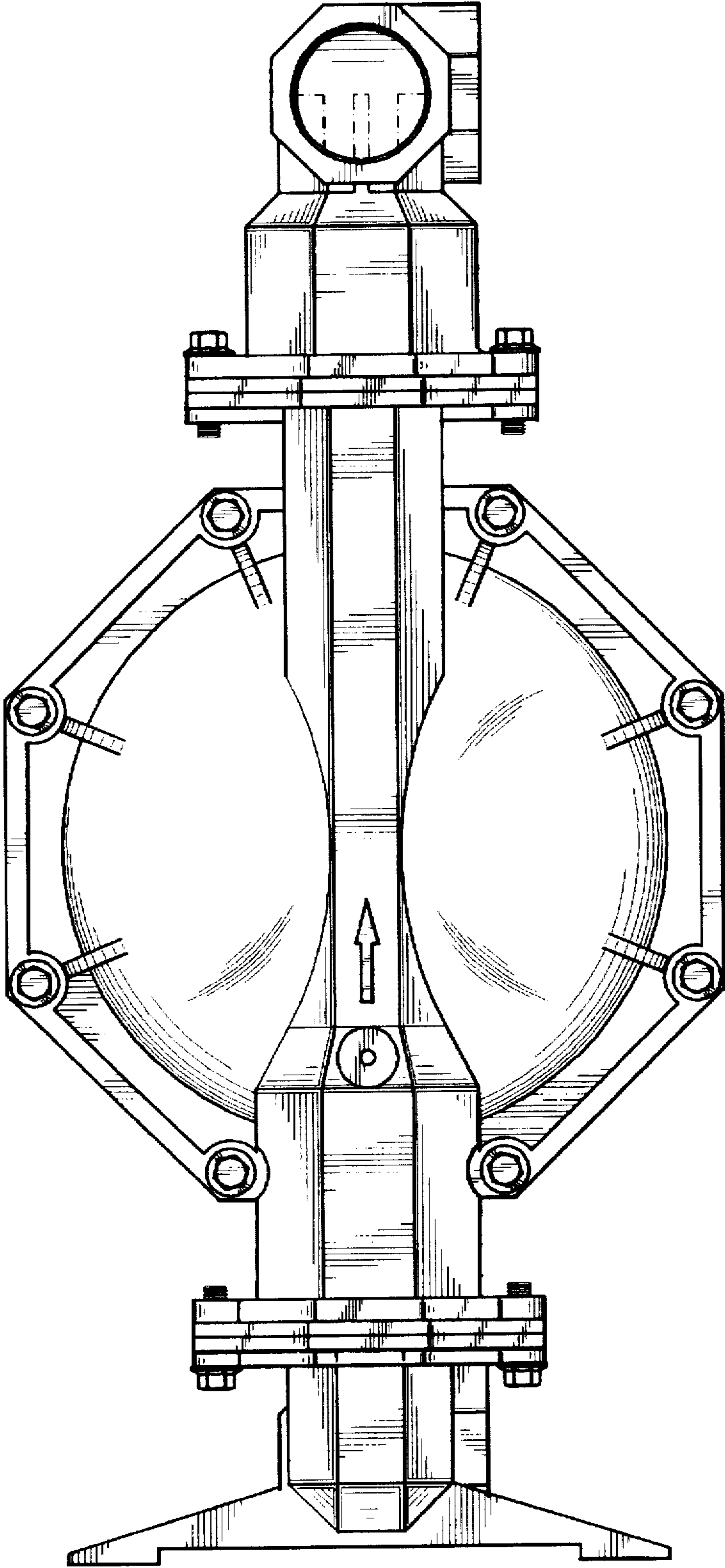


FIG. 5

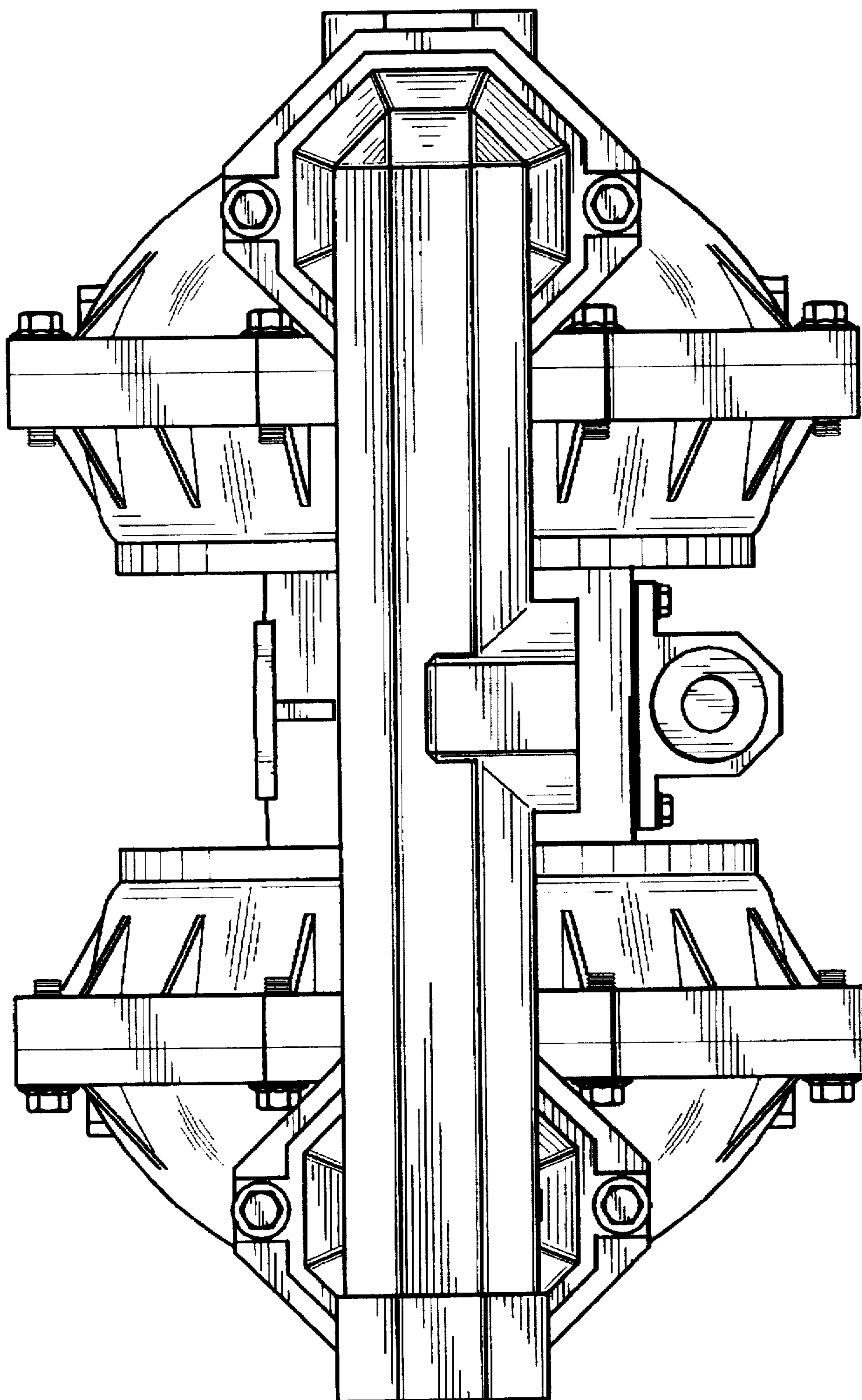


FIG. 6

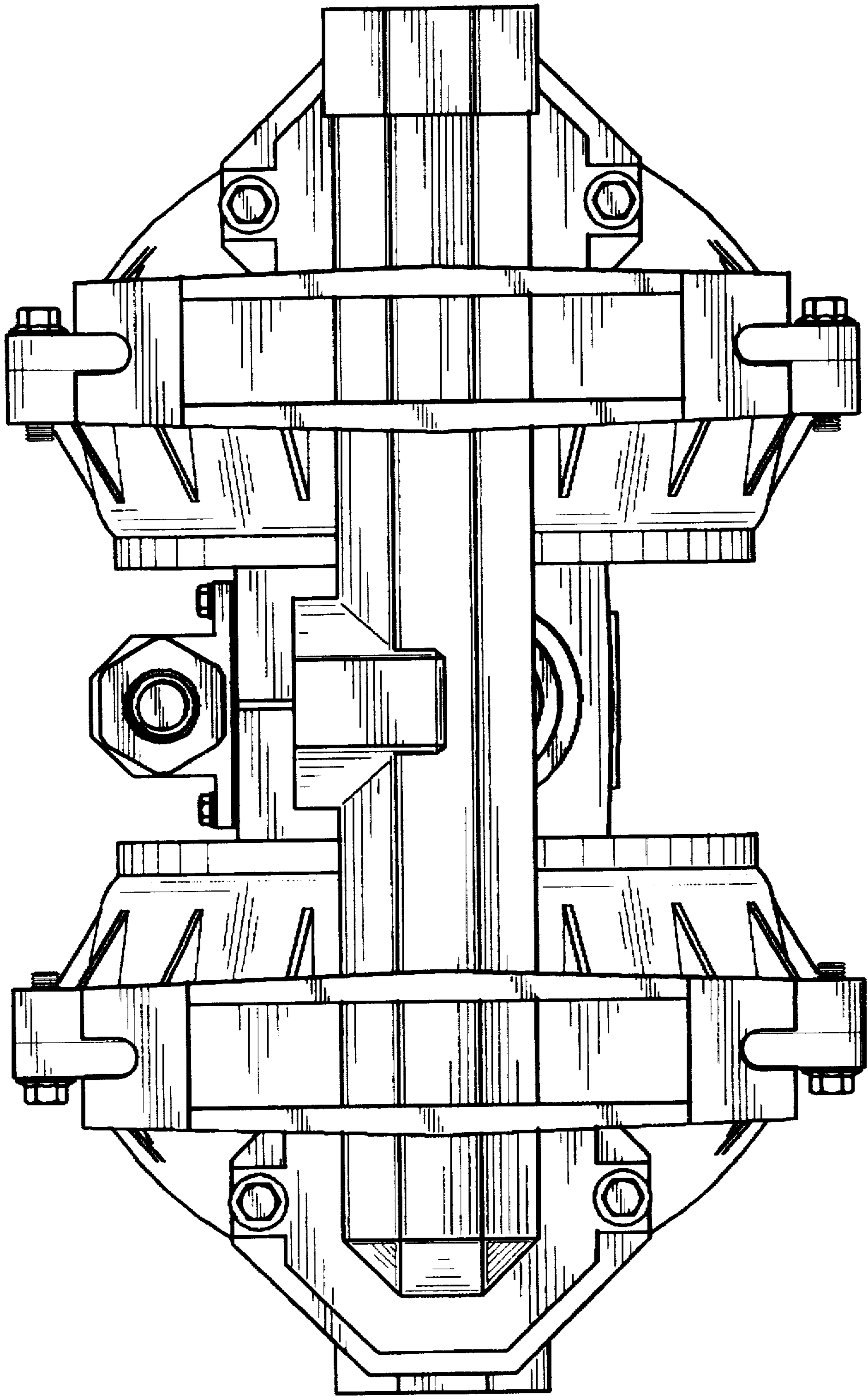


FIG. 7