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(12) **United States Design Patent**  
**Ames et al.**

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(54) **FLUID CYLINDER HANDLING RING**

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(\*\*) Term: **14 Years**

(21) Appl. No.: **29/449,416**

(22) Filed: **Mar. 15, 2013**

(51) **LOC (10) Cl.** ..... **23-01**

(52) **U.S. Cl.**  
USPC ..... **D23/233**

(58) **Field of Classification Search**

USPC ..... D23/233–237, 244–249; 137/1, 266, 137/606, 263, 602, 625.13, 625.47; 251/129.03

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,389,667	A *	11/1945	Hudson	.....	222/6
2,641,273	A *	6/1953	Siebens	.....	137/113
5,097,840	A *	3/1992	Wallace et al.	.....	600/485
8,371,334	B2 *	2/2013	Ozawa et al.	.....	137/625.47
D685,059	S *	6/2013	Wing	.....	D23/233
2006/0169337	A1 *	8/2006	Lopez	.....	137/625.47
2011/0290335	A1 *	12/2011	Foster	.....	137/15.04
2013/0074937	A1 *	3/2013	Wing	.....	137/1

OTHER PUBLICATIONS

Safetygram #6 Liquid Oxygen, 900-06-US REV 5/09, 2009, Air Products and Chemicals, Inc. Allentown, PA.  
Cryogenic Liquid Cylinder Operating Manual 180 HP-200 HP-240 HP-265HP, undated, Cyl-Tec Inc., Aurora, IL.  
Dura-Cyl Permium Liquid Cylinders—Footring, P/N 14338395, 2009, Chart Inc., Garfield Heights, OH.  
Instructions for XL-160 and XL-180, TW-72, undated, Taylor-Wharton, Theodore, AL.

\* cited by examiner

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(57) **CLAIM**

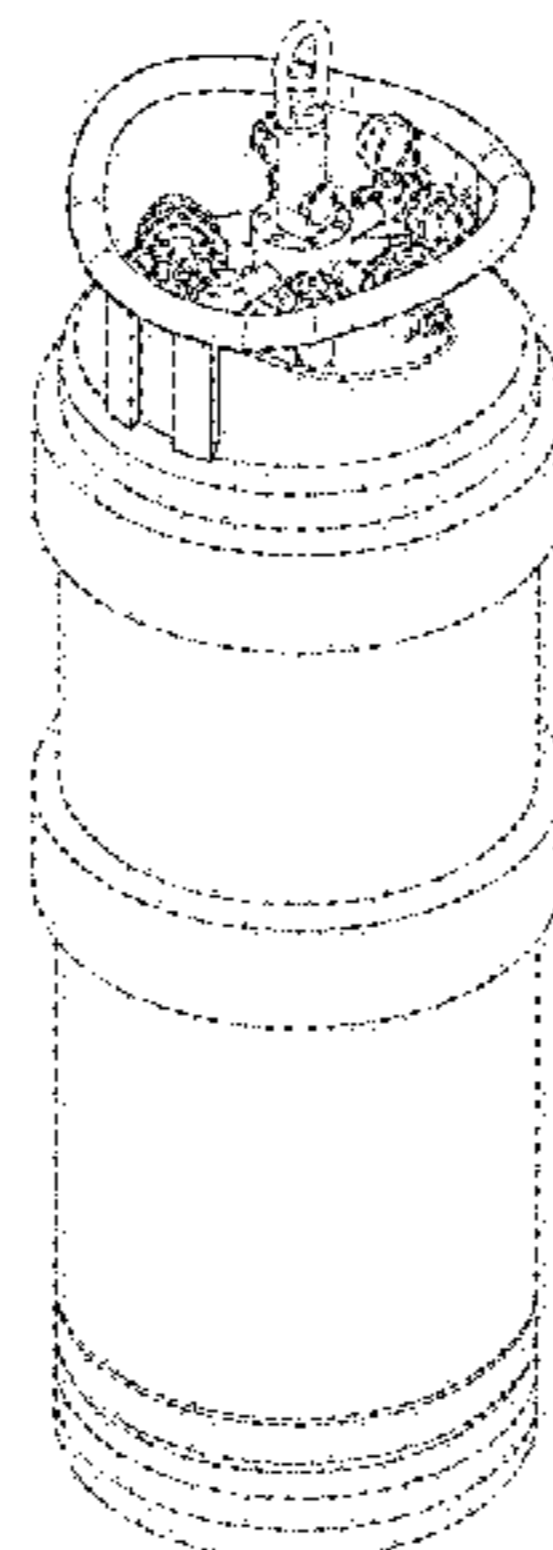
The ornamental design for a fluid cylinder handling ring, as shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of a fluid cylinder handling ring according to our new design; FIG. 2 is a front view thereof; FIG. 3 is a rear view thereof; FIG. 4 is a right side view thereof; FIG. 5 is a left side view thereof; and, FIG. 6 is a top view thereof.

The broken lines in the figures indicate environment and form a part of the claimed design.

**1 Claim, 3 Drawing Sheets**



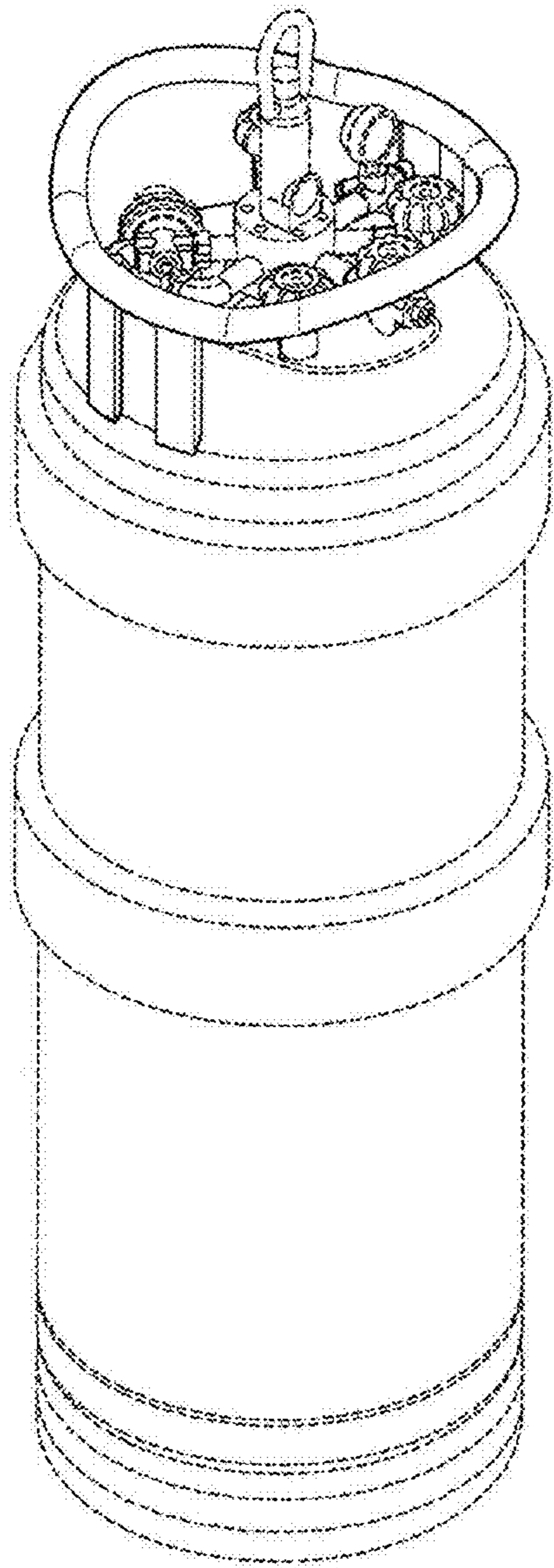


FIG. 1

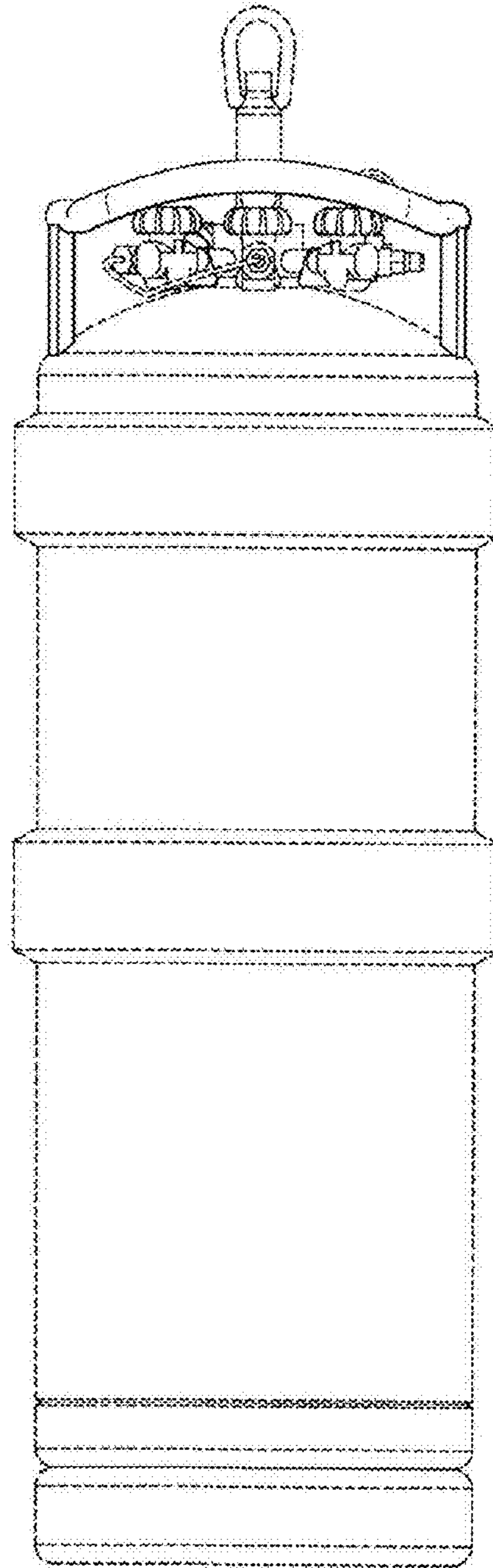


FIG. 2

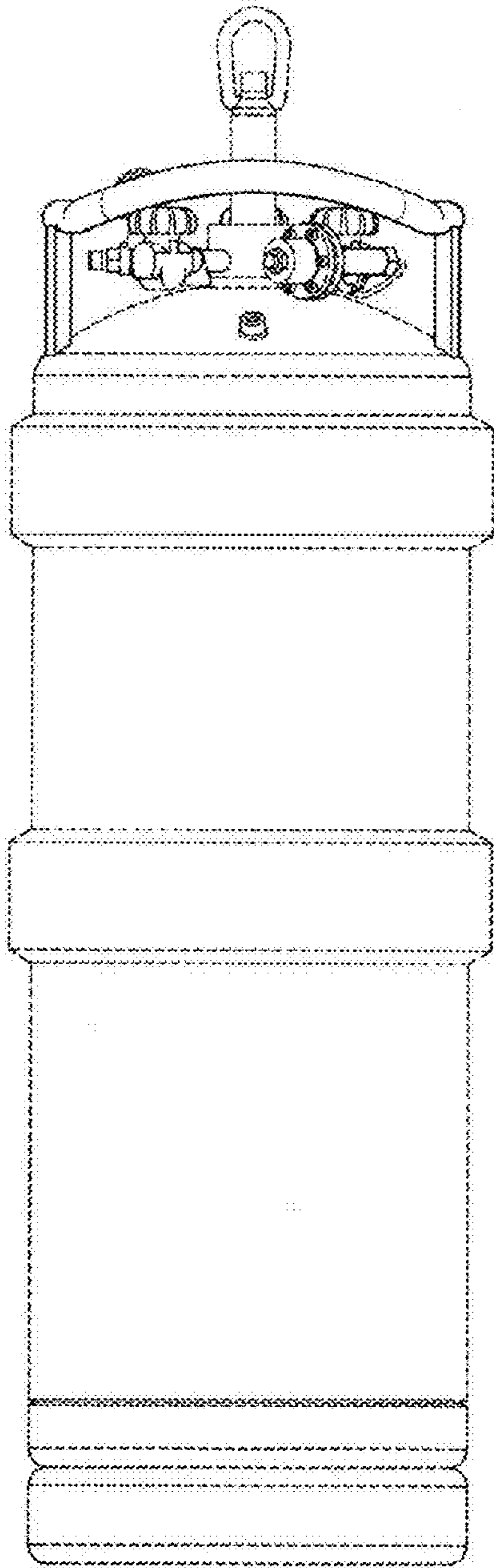


FIG. 3

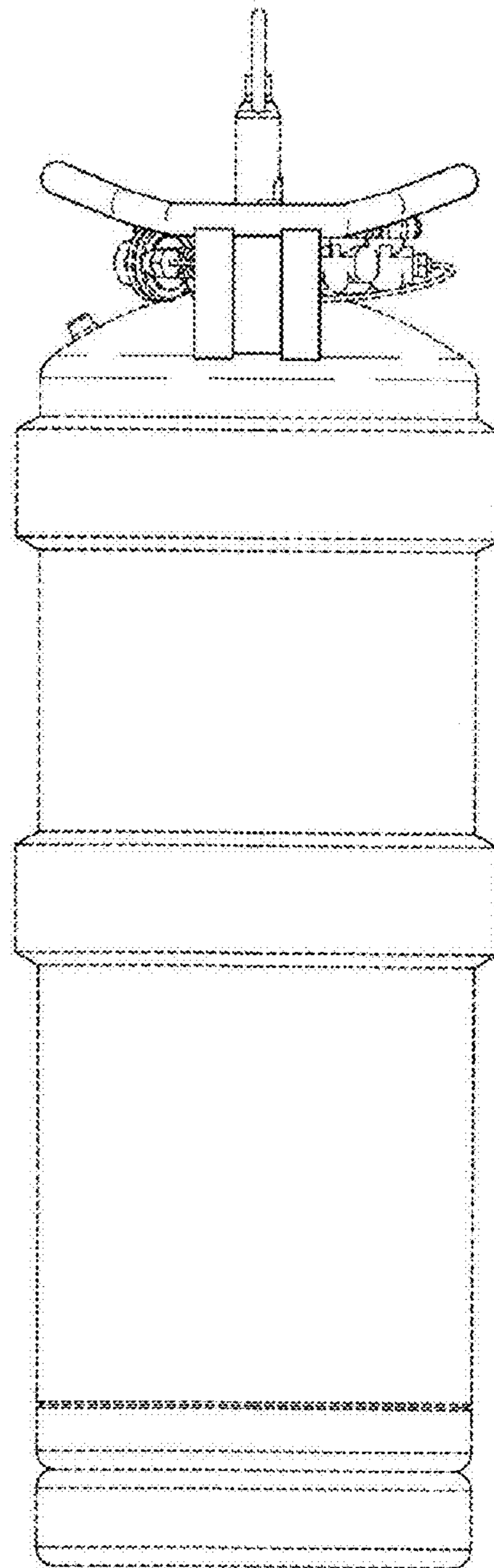


FIG. 4



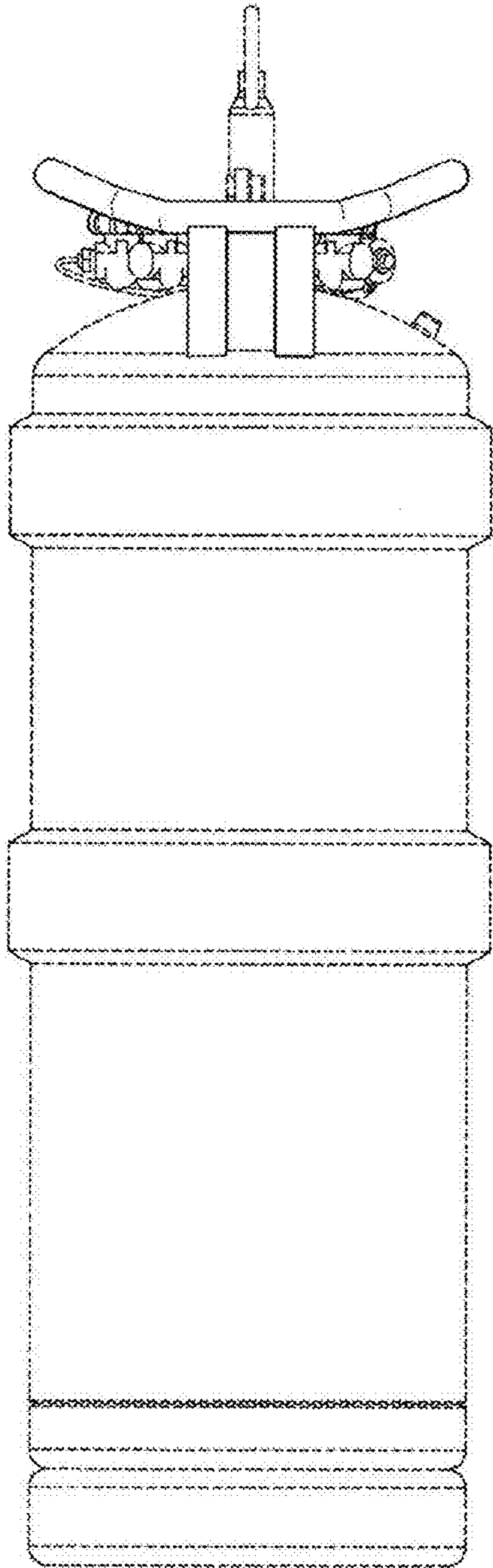


FIG. 5

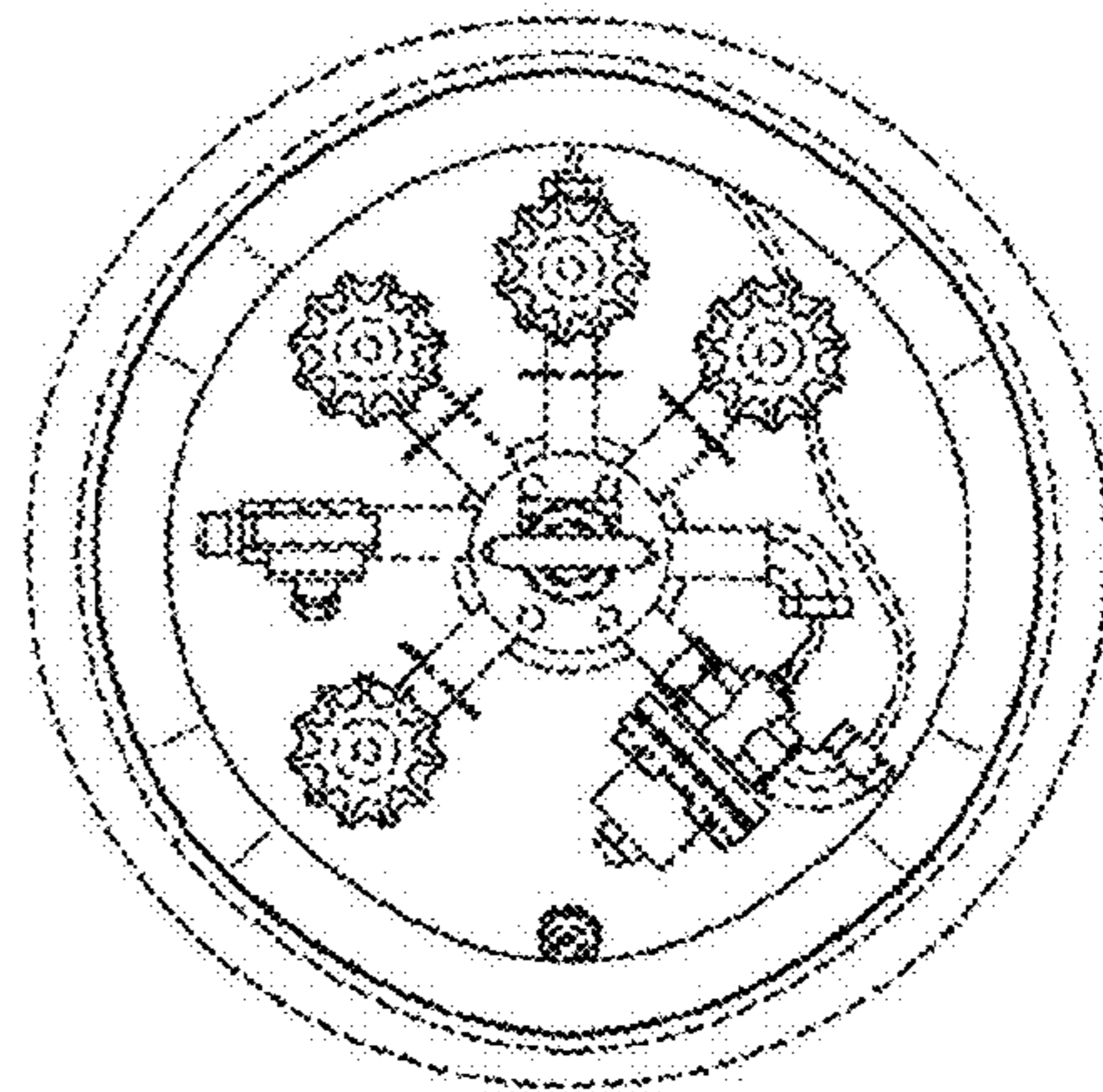


FIG. 6