



US00D774865S

(12) **United States Design Patent**  
**Chen**

(10) **Patent No.:** **US D774,865 S**

(45) **Date of Patent:** **\*\* Dec. 27, 2016**

(54) **DUST COLLECTOR OF DRILL MACHINE**

(71) Applicant: **Chao-Yang Chen**, Taipei (TW)

(72) Inventor: **Chao-Yang Chen**, Taipei (TW)

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

(21) Appl. No.: **29/493,775**

(22) Filed: **Jun. 12, 2014**

(51) **LOC (10) Cl.** ..... **08-03**

(52) **U.S. Cl.**  
USPC ..... **D8/70; D15/138**

(58) **Field of Classification Search**  
USPC ..... D8/14.1, 61-70; 81/429, 454-456, 469,  
81/489; 173/104, 114, 168-171, 178, 201,  
173/211, 213, 217; 408/20, 124, 125, 234;  
388/809

CPC ... B23Q 11/00; B23Q 11/0046; B23B 45/003;  
B25D 17/22

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

3,339,435	A *	9/1967	Heitz	.....	B23B 31/001 144/252.1
D225,715	S *	1/1973	McCord	.....	294/189
3,934,661	A *	1/1976	Sauerwein	.....	E21B 21/015 175/211
D285,618	S *	9/1986	Borgman	.....	D32/25
5,061,123	A *	10/1991	Broussard	.....	B23Q 11/0053 408/67
5,160,230	A *	11/1992	Cuevas	.....	B23Q 11/0053 408/67
5,653,561	A *	8/1997	May	.....	B23Q 11/0046 408/67

D385,073	S *	10/1997	Tash	.....	D32/35
D417,000	S *	11/1999	Poynter	.....	D24/115
D428,135	S *	7/2000	Potchen	.....	D23/418
D437,667	S *	2/2001	Hwang	.....	D32/35
D509,333	S *	9/2005	Tash	.....	D32/35
D542,312	S *	5/2007	Skradski	.....	D15/138
D542,313	S *	5/2007	Skradski	.....	D15/138
D543,563	S *	5/2007	Skradski	.....	D15/138
D588,893	S *	3/2009	Radich	.....	D8/70
D590,227	S *	4/2009	Yun	.....	D8/70
D677,292	S *	3/2013	Barnes	.....	D15/132
D695,584	S *	12/2013	Chen	.....	D8/70
D719,806	S *	12/2014	Wiedemann	.....	D8/70
2013/0094915	A1 *	4/2013	Chen	.....	B23Q 11/0071 408/67
2013/0137348	A1 *	5/2013	Chen	.....	B24B 23/028 451/453
2013/0331012	A1 *	12/2013	Christen	.....	B24B 55/10 451/453
2014/0037392	A1 *	2/2014	Lo	.....	B23Q 11/0071 408/67

\* cited by examiner

*Primary Examiner* — Darlington Ly

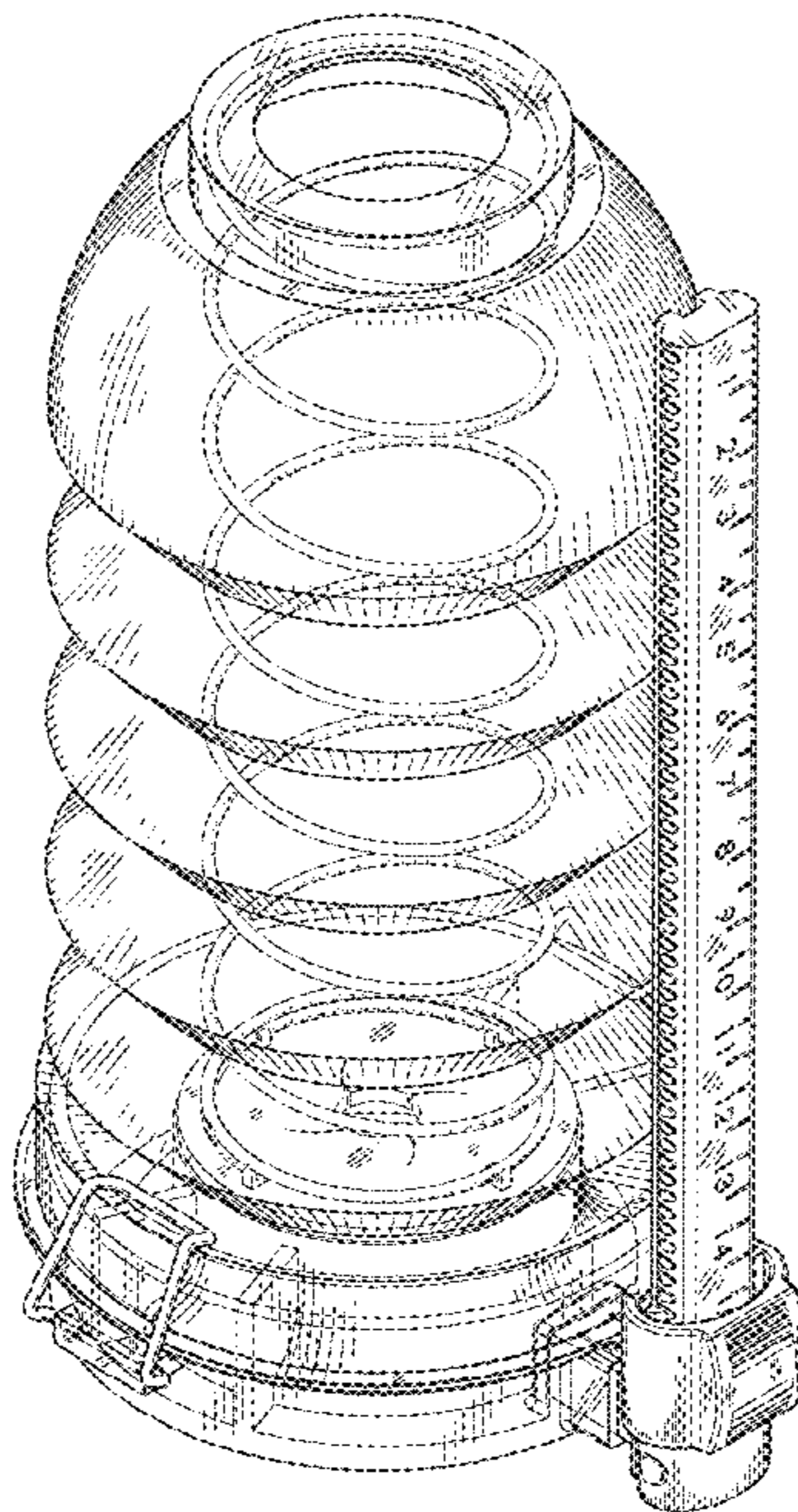
(57) **CLAIM**

The ornamental design for a dust collector of drill machine, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a dust collector of drill machine showing my new design; FIG. 2 is a front elevational view thereof; FIG. 3 is a rear elevational view thereof; FIG. 4 is a left side elevational view thereof; FIG. 5 is a right side elevational view thereof; and, FIG. 6 is a top plan view thereof.

**1 Claim, 6 Drawing Sheets**



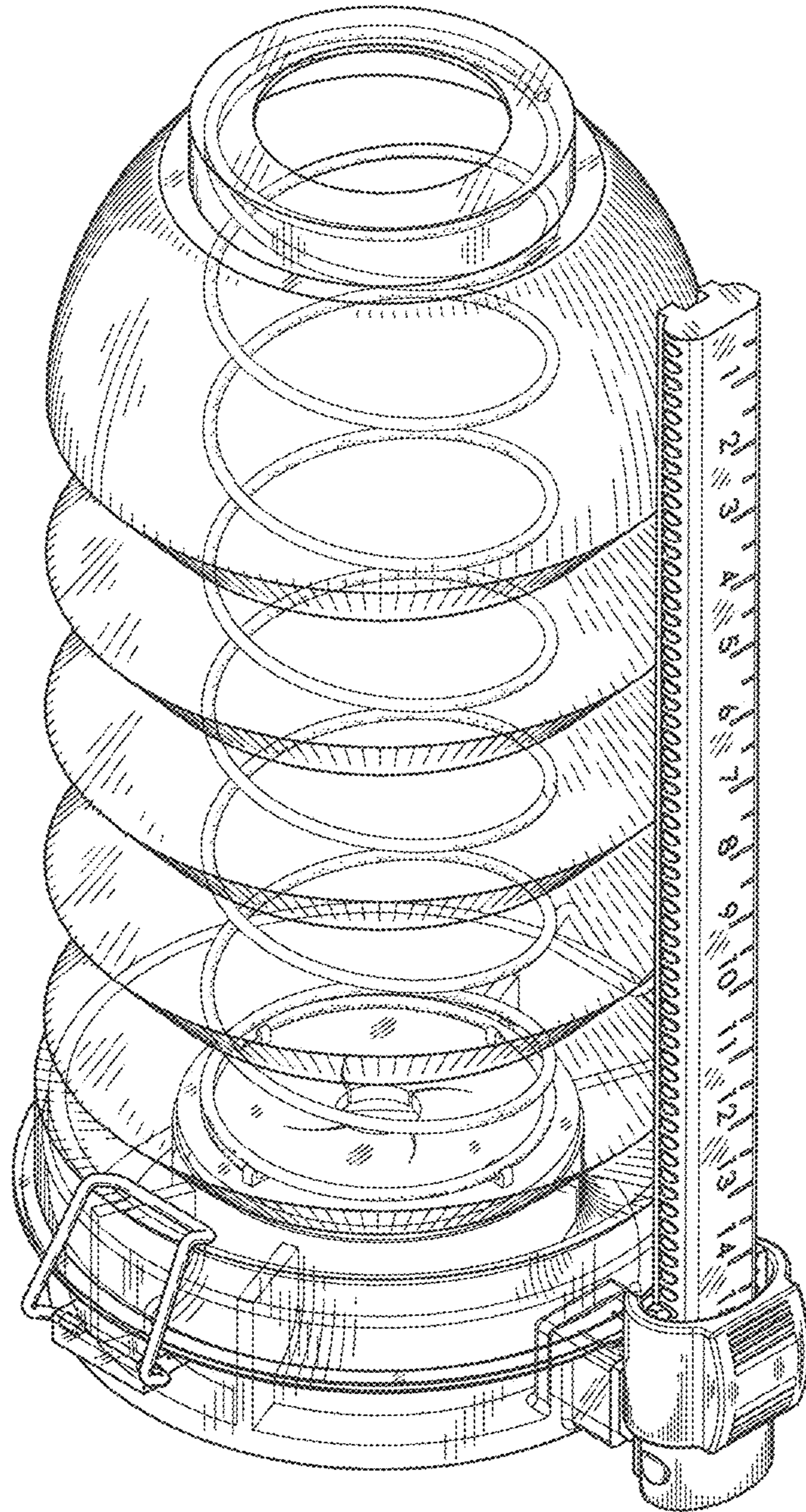


Fig.1



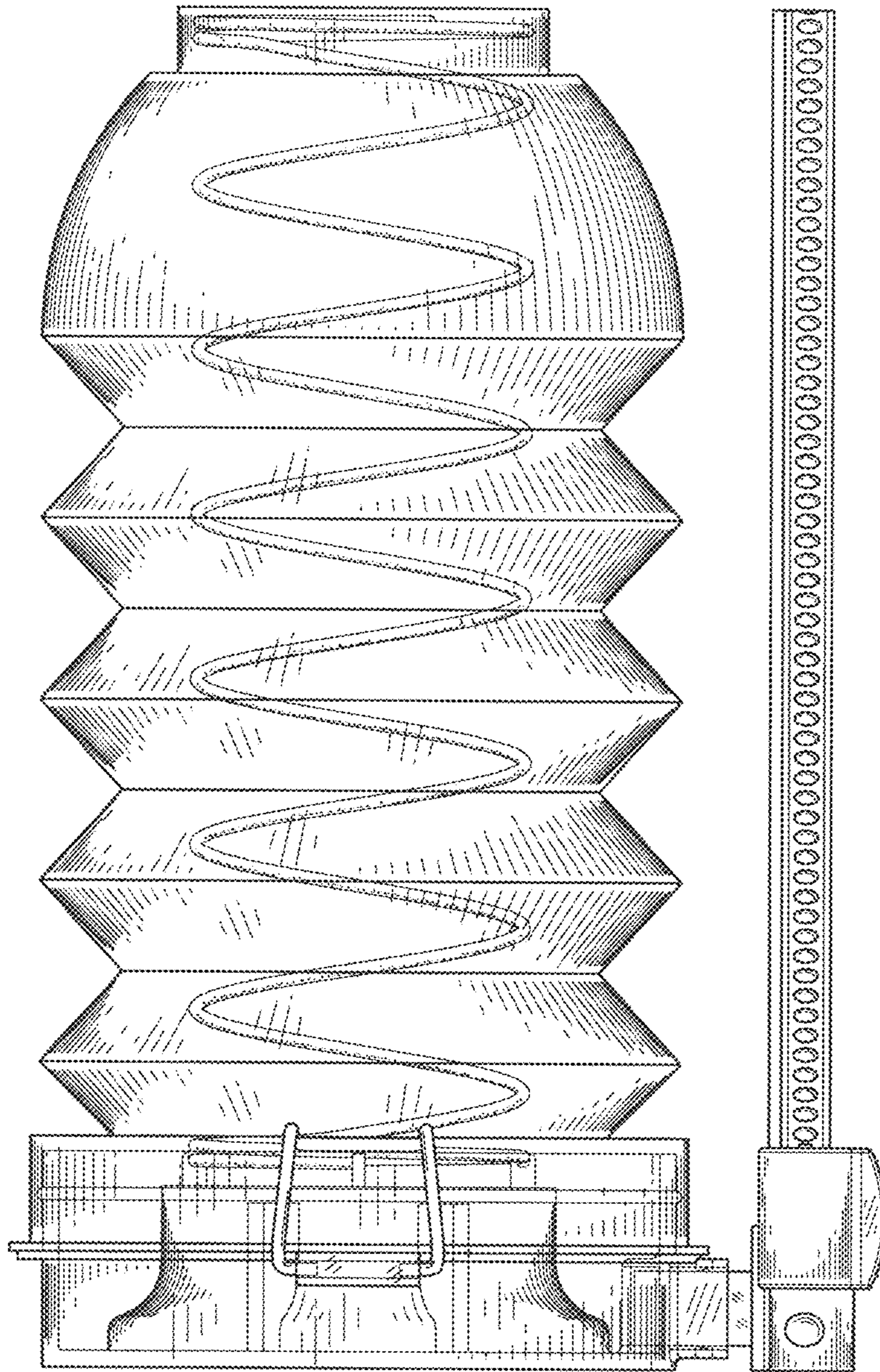


Fig.2

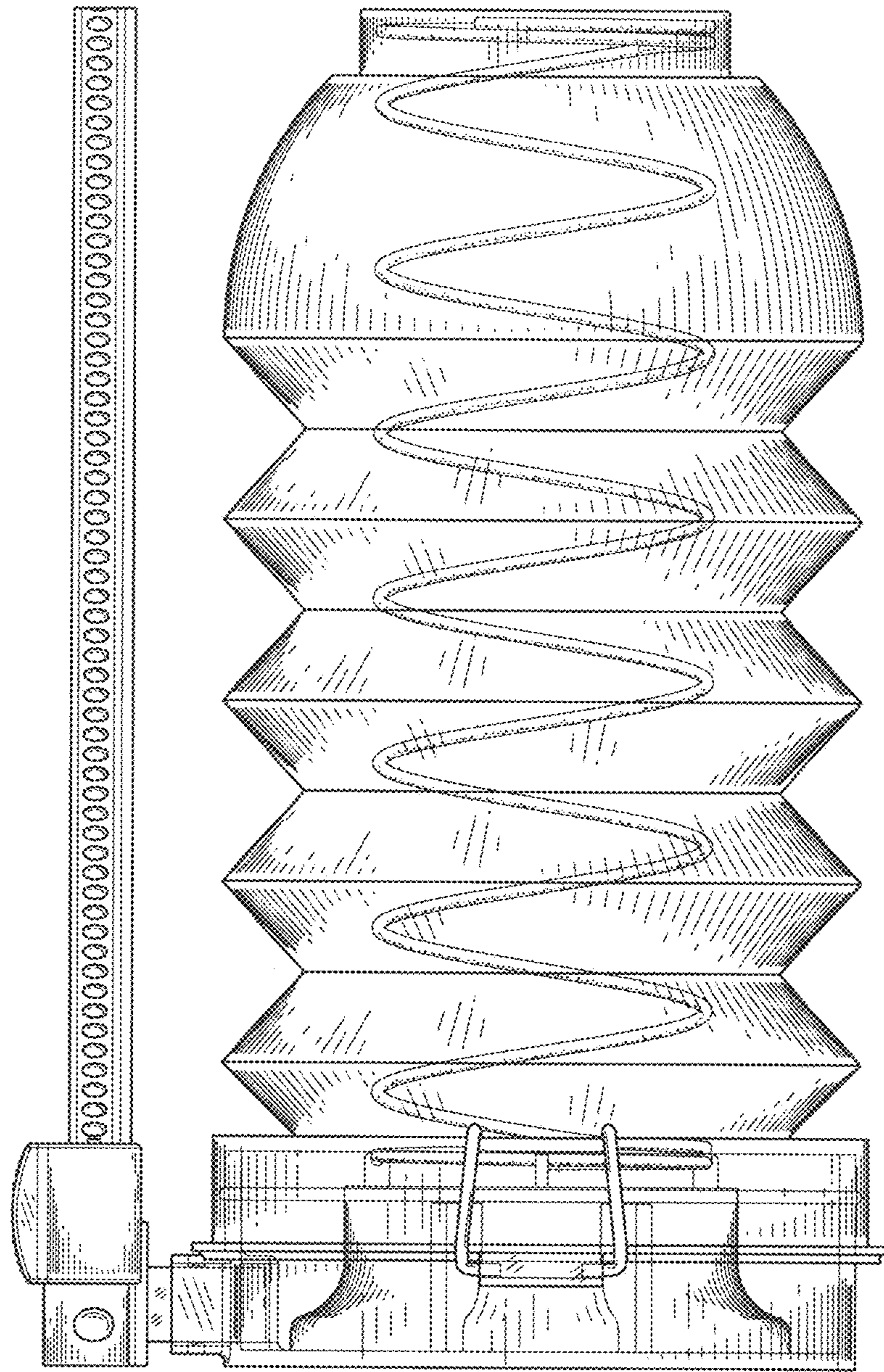


Fig.3



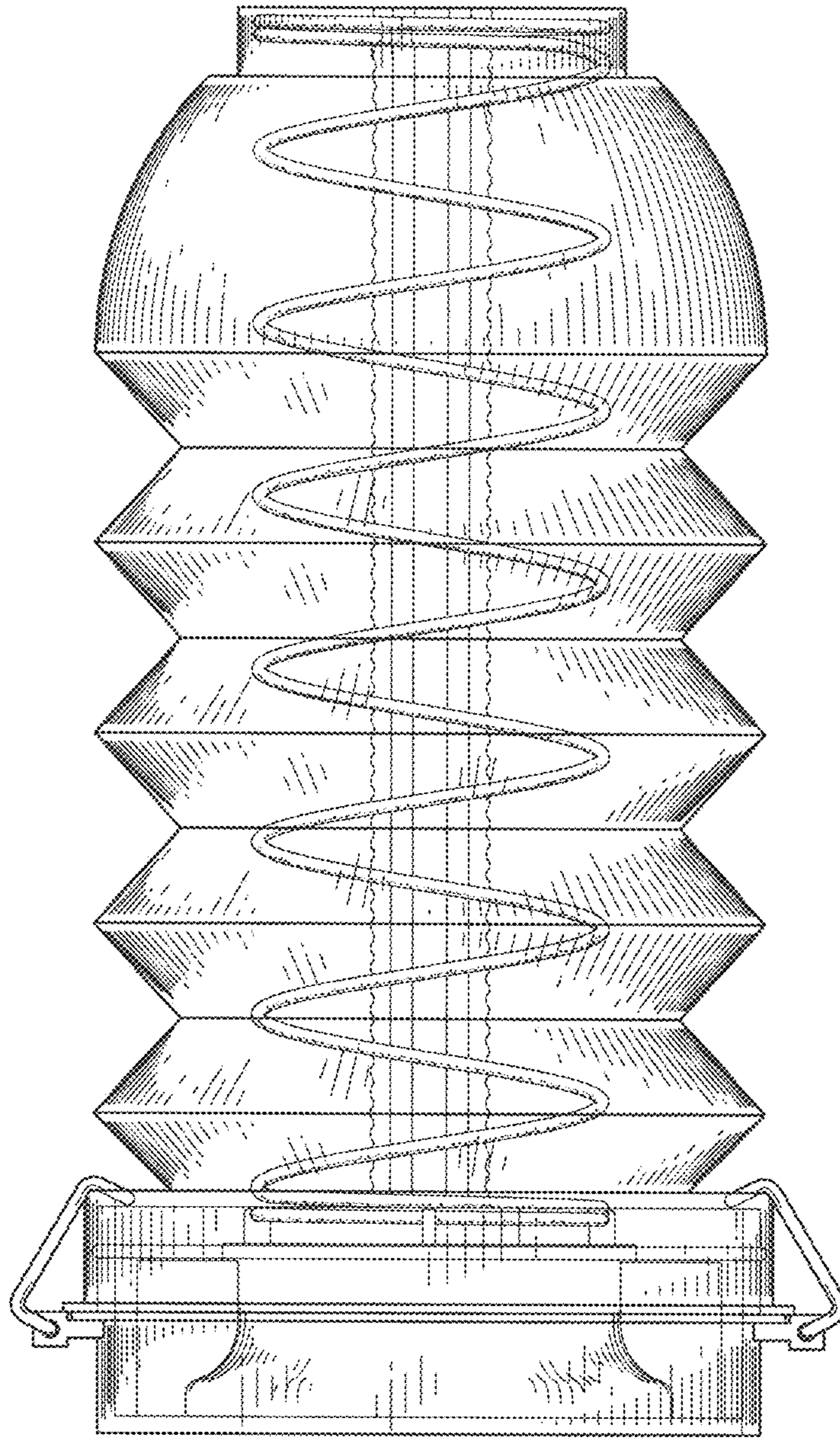


Fig.4

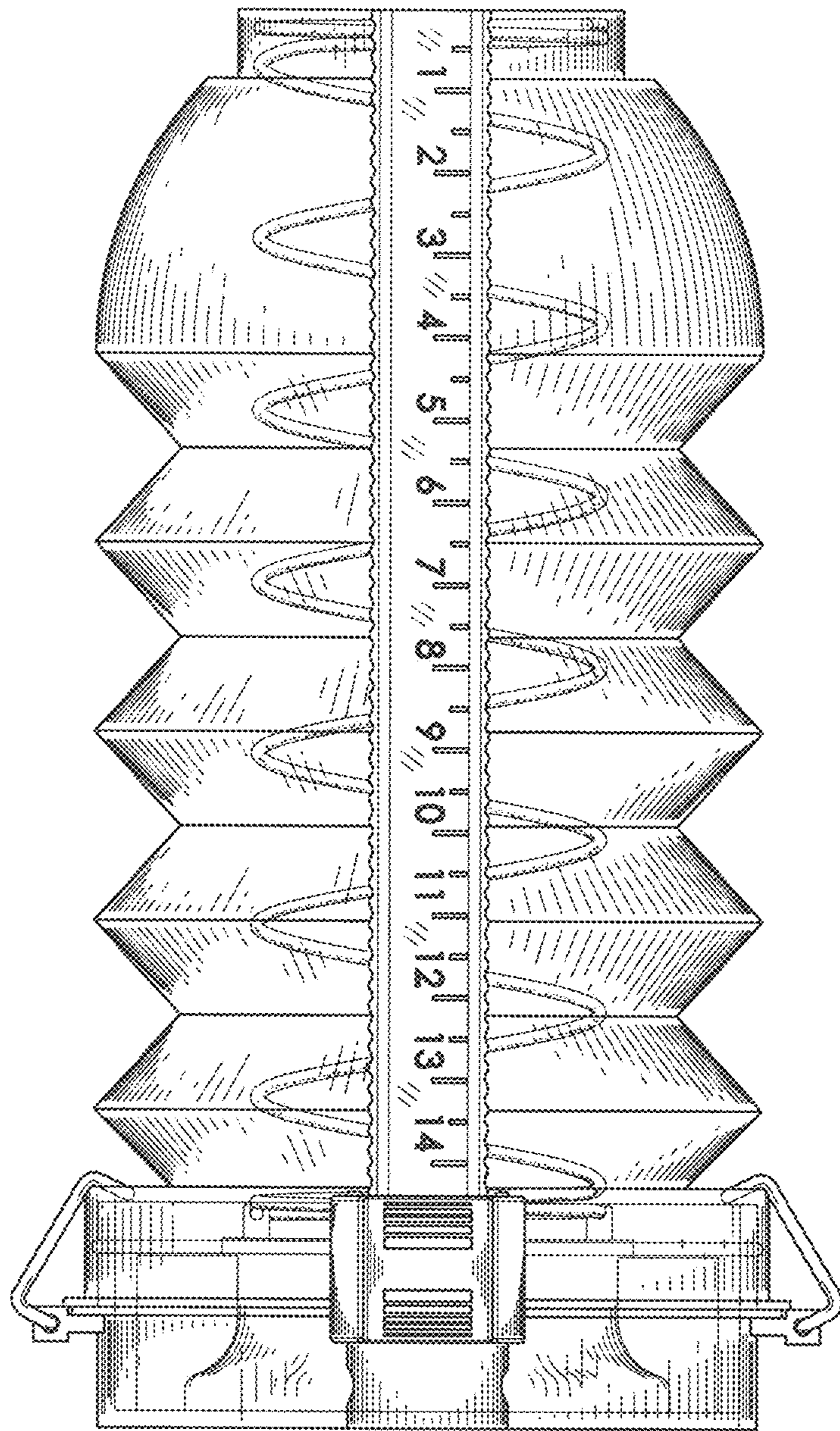


Fig.5



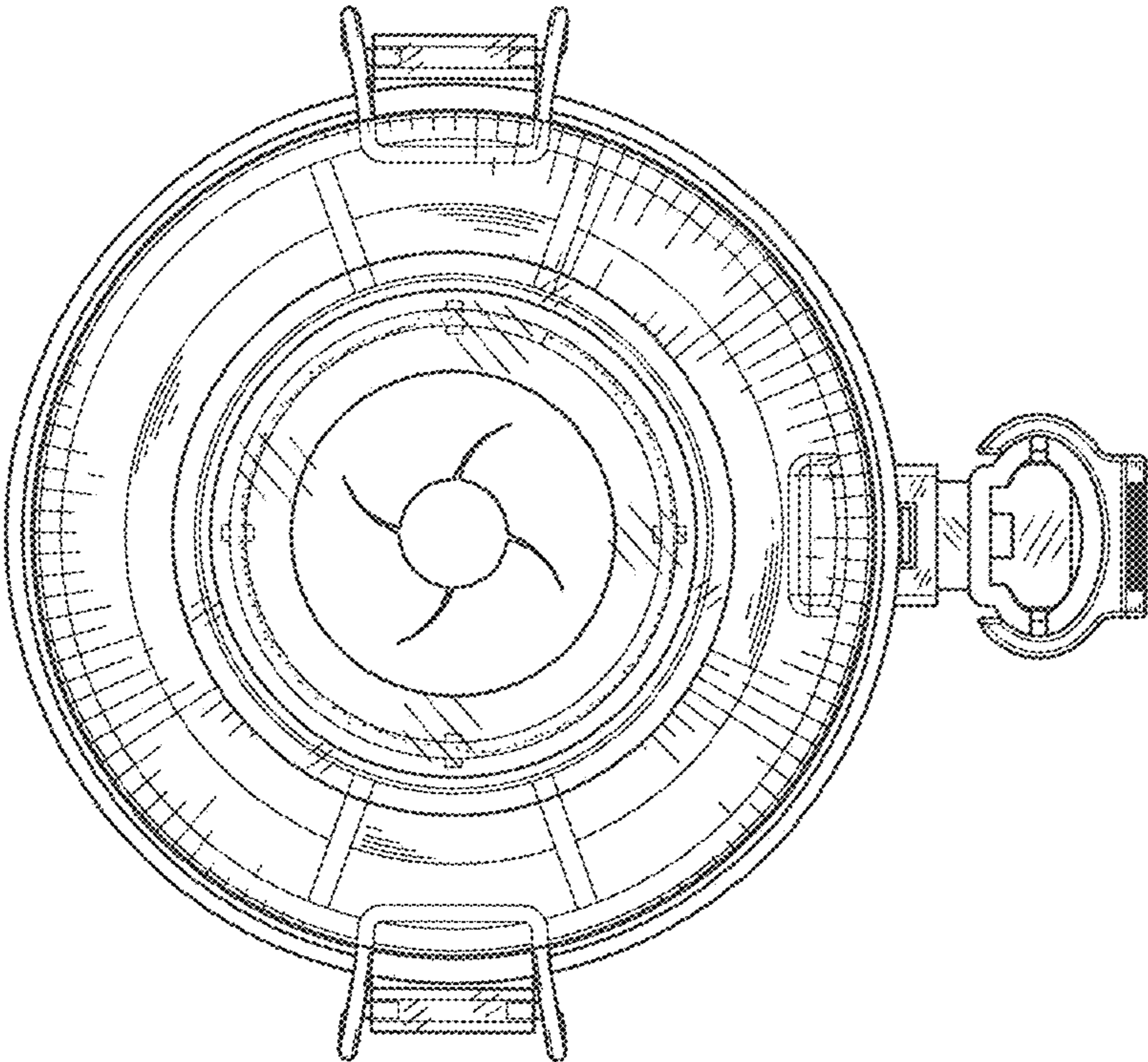


Fig.6