



US00D612878S

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

(10) **Patent No.:** **US D612,878 S**

(45) **Date of Patent:** **** Mar. 30, 2010**

(54) **CYCLONE SEPARATOR**

(75) Inventor: **Tjitze Meter**, Veenendaal (NL)

(73) Assignee: **HatchTech Group B.V.**, Veenendaal (NL)

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

(21) Appl. No.: **29/314,370**

(22) Filed: **Mar. 23, 2009**

(30) **Foreign Application Priority Data**

Sep. 22, 2008 (EM) 001007215-0001

(51) **LOC (9) Cl.** **15-09**

(52) **U.S. Cl.** **D15/147**

(58) **Field of Classification Search** D15/147,
D15/199; D24/22; 34/58, 59; 55/337, 421,
55/428; 209/13, 139.2, 148, 199, 200, 606;
210/512.1, 512.2, 787

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,700,467 A * 1/1955 Dorman 209/199
3,732,979 A * 5/1973 Gilkey 209/199
4,221,555 A * 9/1980 Boon 425/89
D264,974 S * 6/1982 Summers D15/199
D271,879 S * 12/1983 Neilson D15/147
D280,628 S * 9/1985 Besson D15/147
D294,363 S * 2/1988 Donhauser D15/147

D303,672 S * 9/1989 Stienen D15/147
2004/0108256 A1 * 6/2004 Hoffmann 209/715
2005/0077234 A1 * 4/2005 Yoshida et al. 210/512.1
2008/0006011 A1 * 1/2008 Larnholm et al. 55/421
2008/0047239 A1 * 2/2008 Zheng et al. 55/337
2008/0251468 A1 * 10/2008 Parkinson 210/787
2009/0071880 A1 * 3/2009 Castro Soto 209/606
2009/0145813 A1 * 6/2009 Kim et al. 209/13

* cited by examiner

Primary Examiner—Sandra Snapp

Assistant Examiner—Patricia Palasik

(74) *Attorney, Agent, or Firm*—Abelman, Frayne & Schwab

(57) **CLAIM**

The ornamental design for a cyclone separator, as shown and described.

DESCRIPTION

FIG. 1 is a top, front and left side perspective view of the cyclone separator constructed according to my design;

FIG. 2 is a left side elevational view thereof;

FIG. 3 is a front elevational view thereof;

FIG. 4 is a right side elevational view thereof;

FIG. 5 is a rear elevational view thereof;

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

FIG. 7 is a bottom plan view thereof.

The broken lines in the drawings depict unclaimed environmental subject matter.

1 Claim, 3 Drawing Sheets



FIG. 1

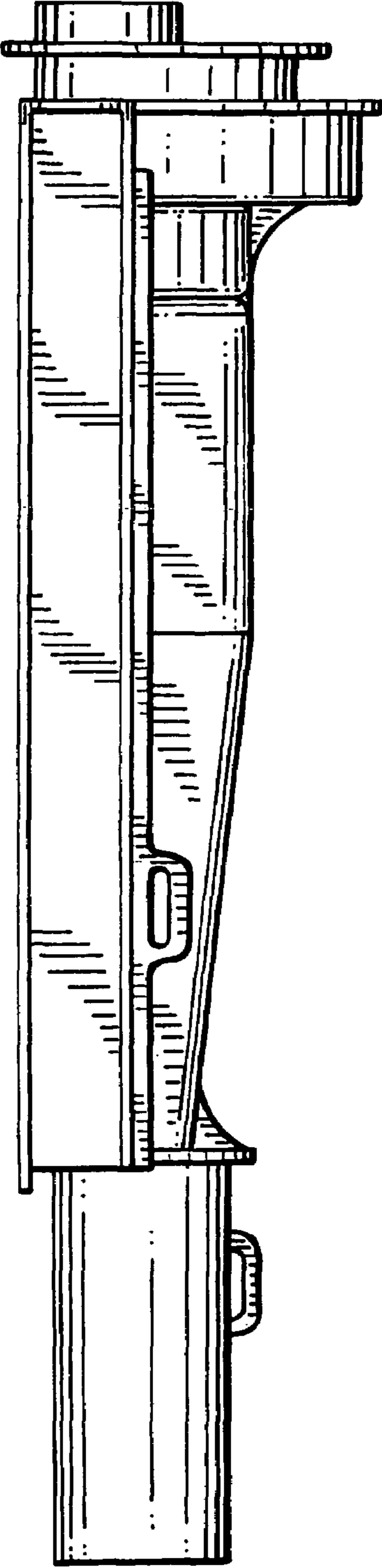


FIG. 2

FIG. 3

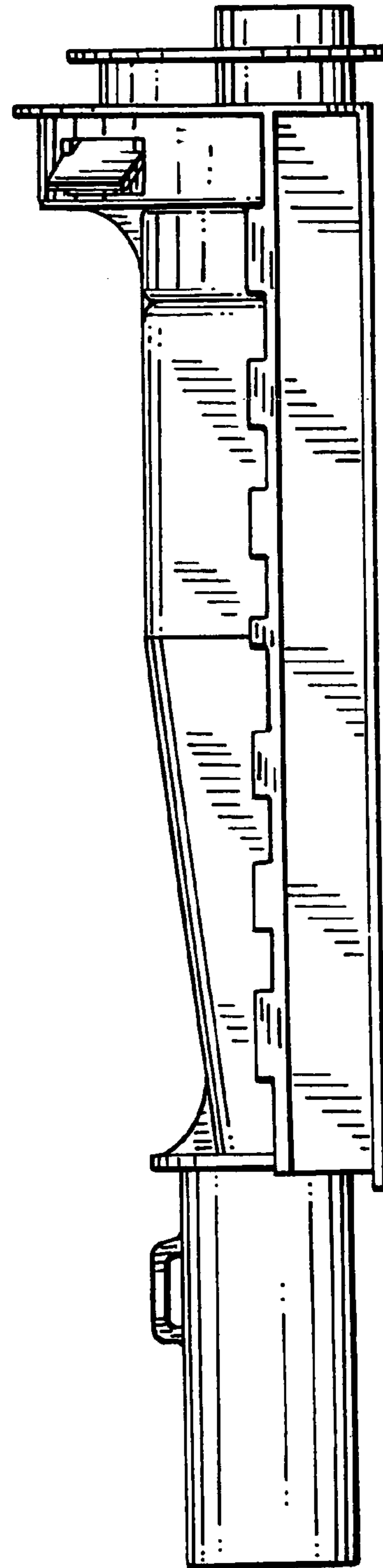
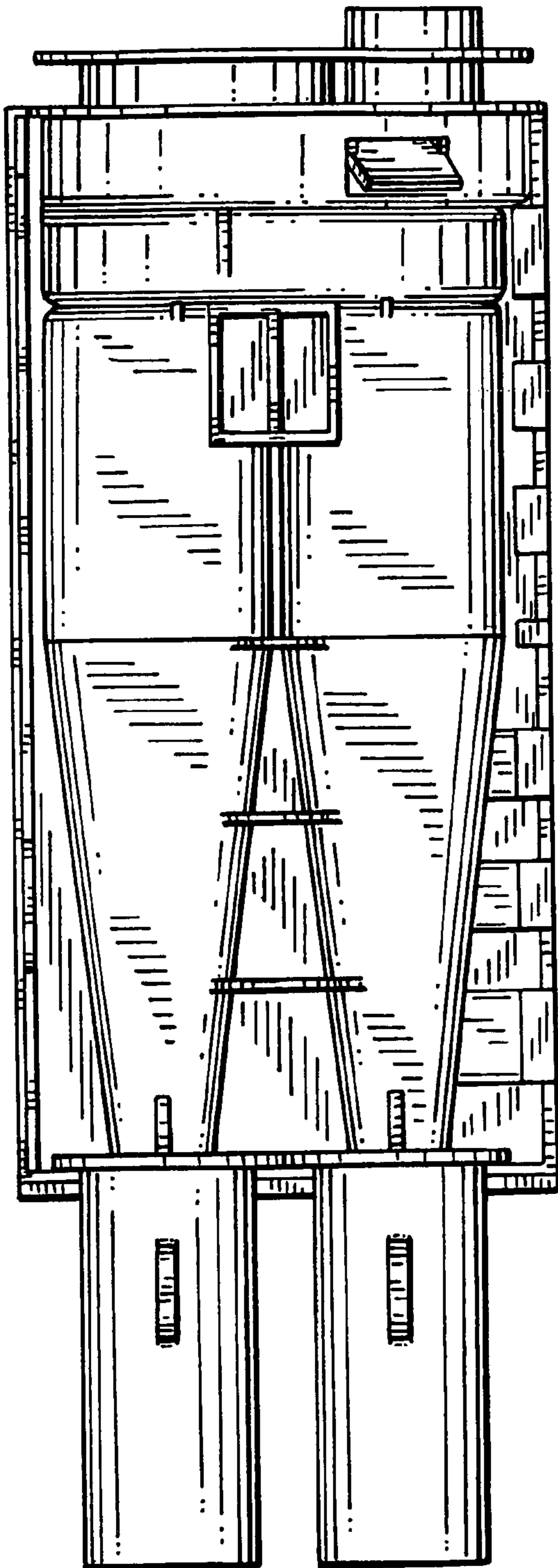


FIG. 4

FIG. 5

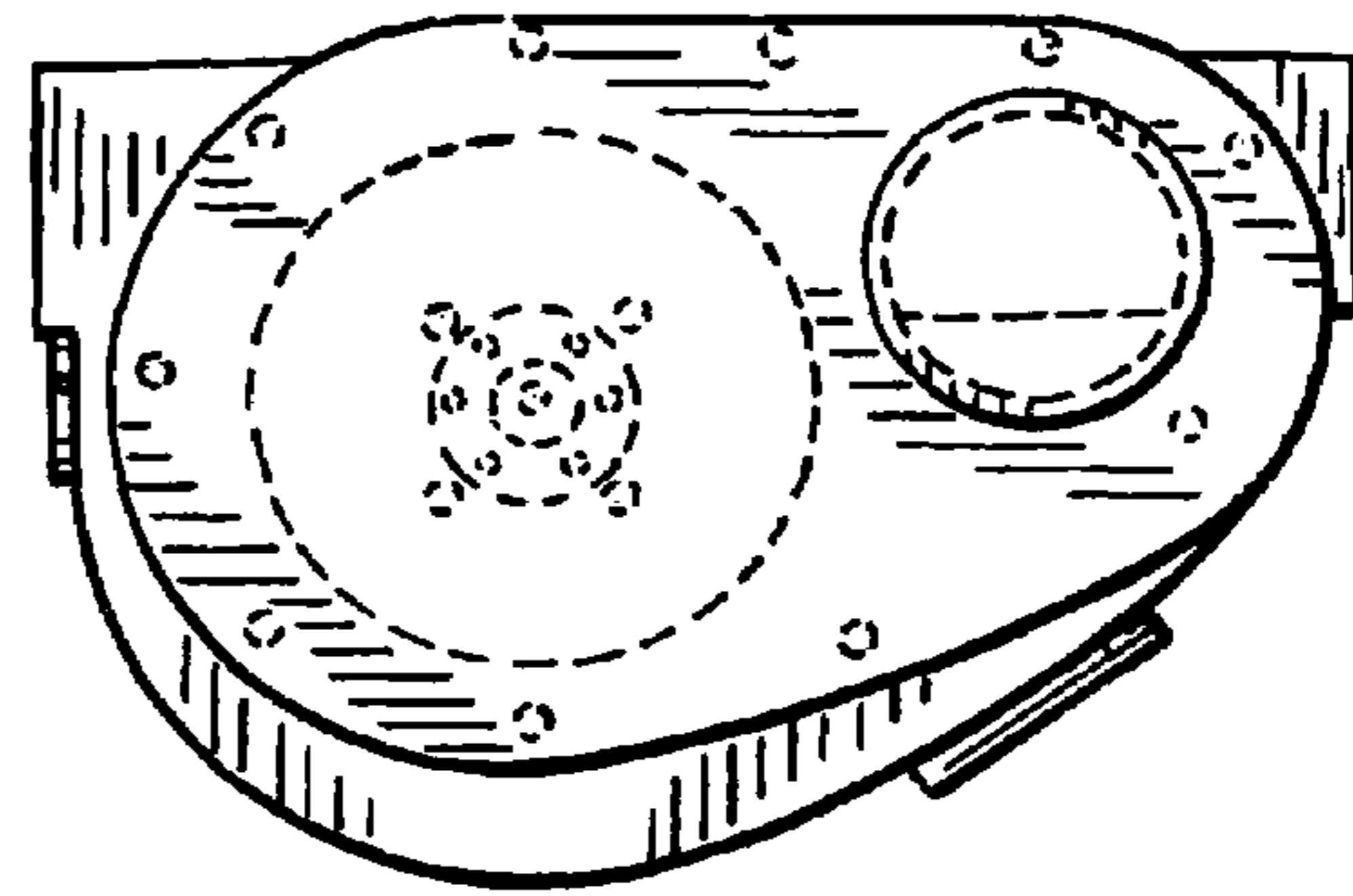
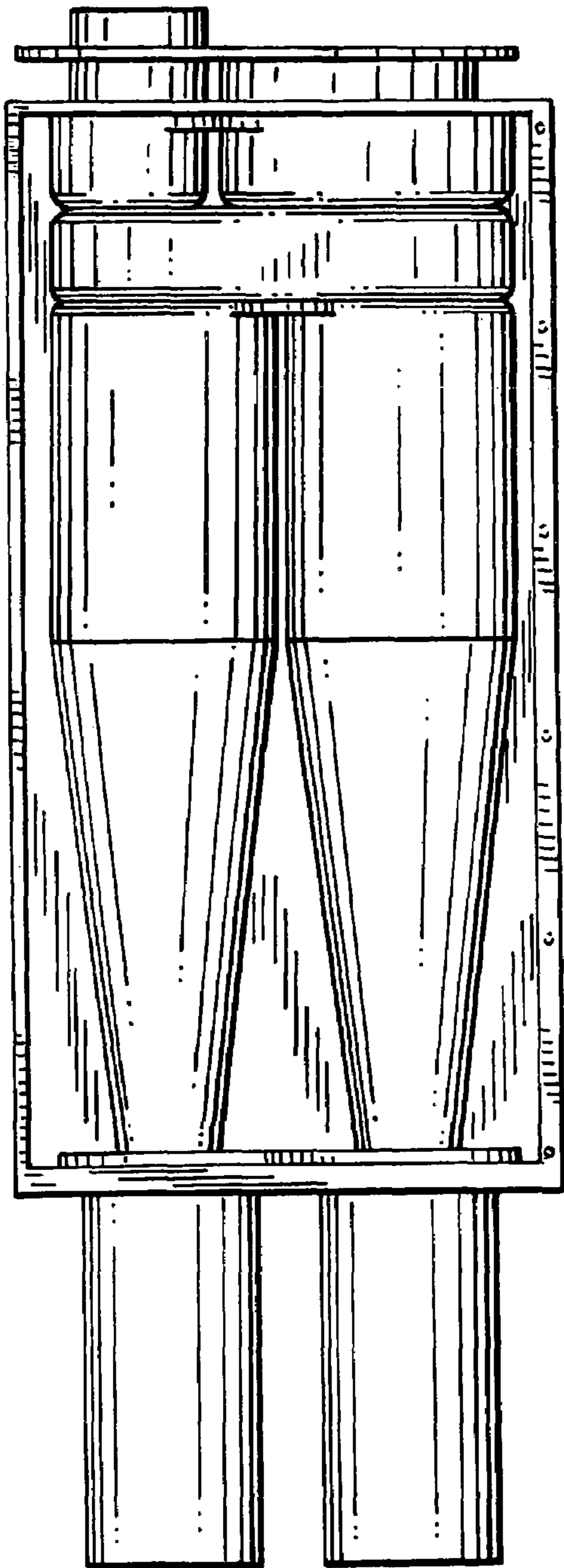


FIG. 6

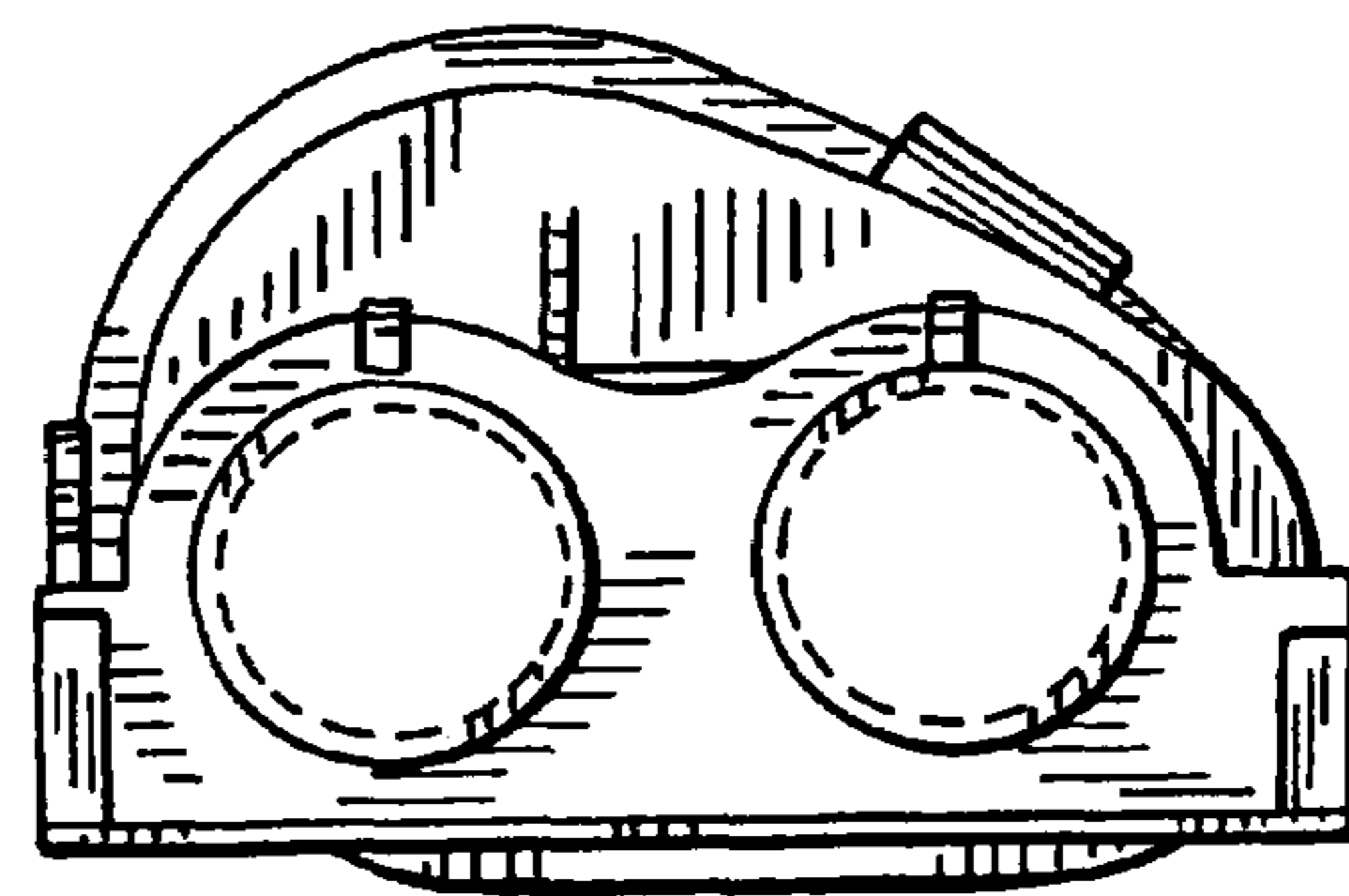


FIG. 7