



US00D478369S

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

(10) **Patent No.:** **US D478,369 S**

(45) **Date of Patent:** **** Aug. 12, 2003**

(54) **HAND PUMP**

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

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(30) **Foreign Application Priority Data**

Jun. 17, 2002 (TW) 091303146 A

(51) **LOC (7) Cl.** **15-02**

(52) **U.S. Cl.** **D23/231**

(58) **Field of Search** D23/231, 226;
222/3; 417/63, 440, 305, 306

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,564,506 A * 1/1986 Williams 417/440

4,954,054 A * 9/1990 Neward 417/440

D321,927 S * 11/1991 Smith et al. D23/231

5,362,214 A * 11/1994 Neward 417/440

5,478,216 A * 12/1995 Neward 417/440

* cited by examiner

Primary Examiner—Robin V. Taylor

(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a front perspective view of a hand pump showing my new design;

FIG. 2 is a right side elevational view;

FIG. 3 is a top plan view;

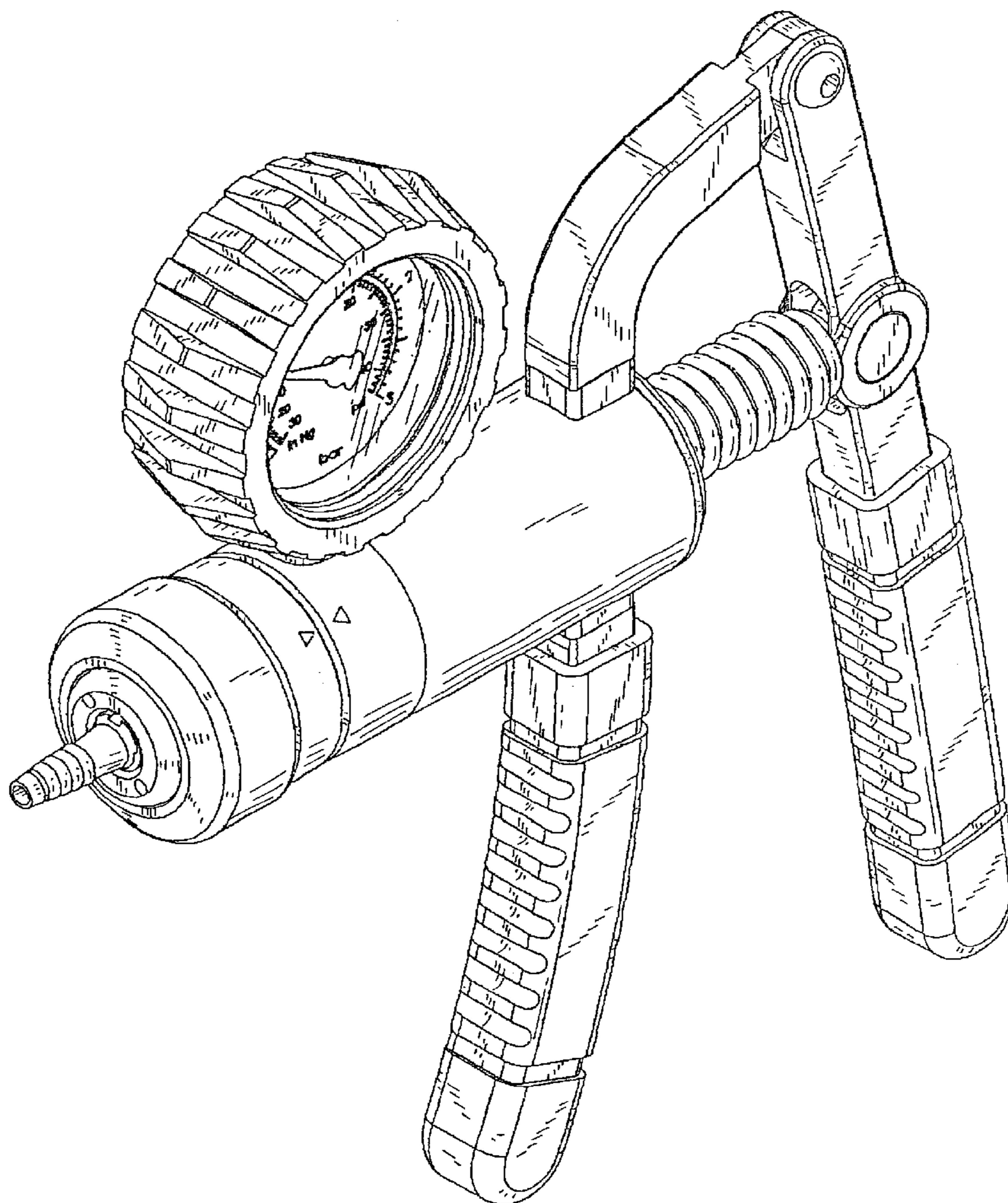
FIG. 4 is a front elevational view;

FIG. 5 is a bottom plan view thereof;

FIG. 6 is a left side elevational view; and,

FIG. 7 is a rear elevational view.

1 Claim, 7 Drawing Sheets



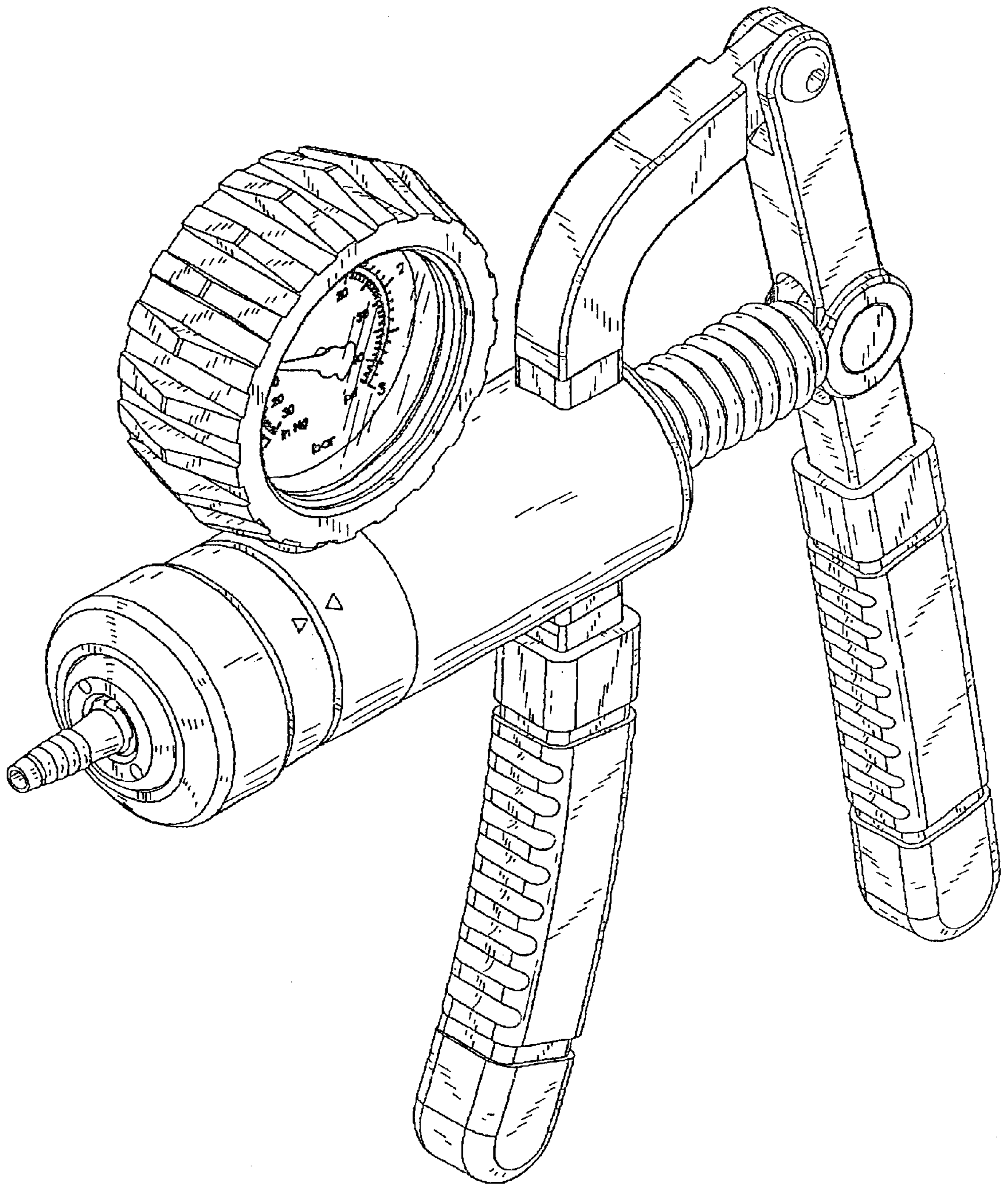


FIG. 1

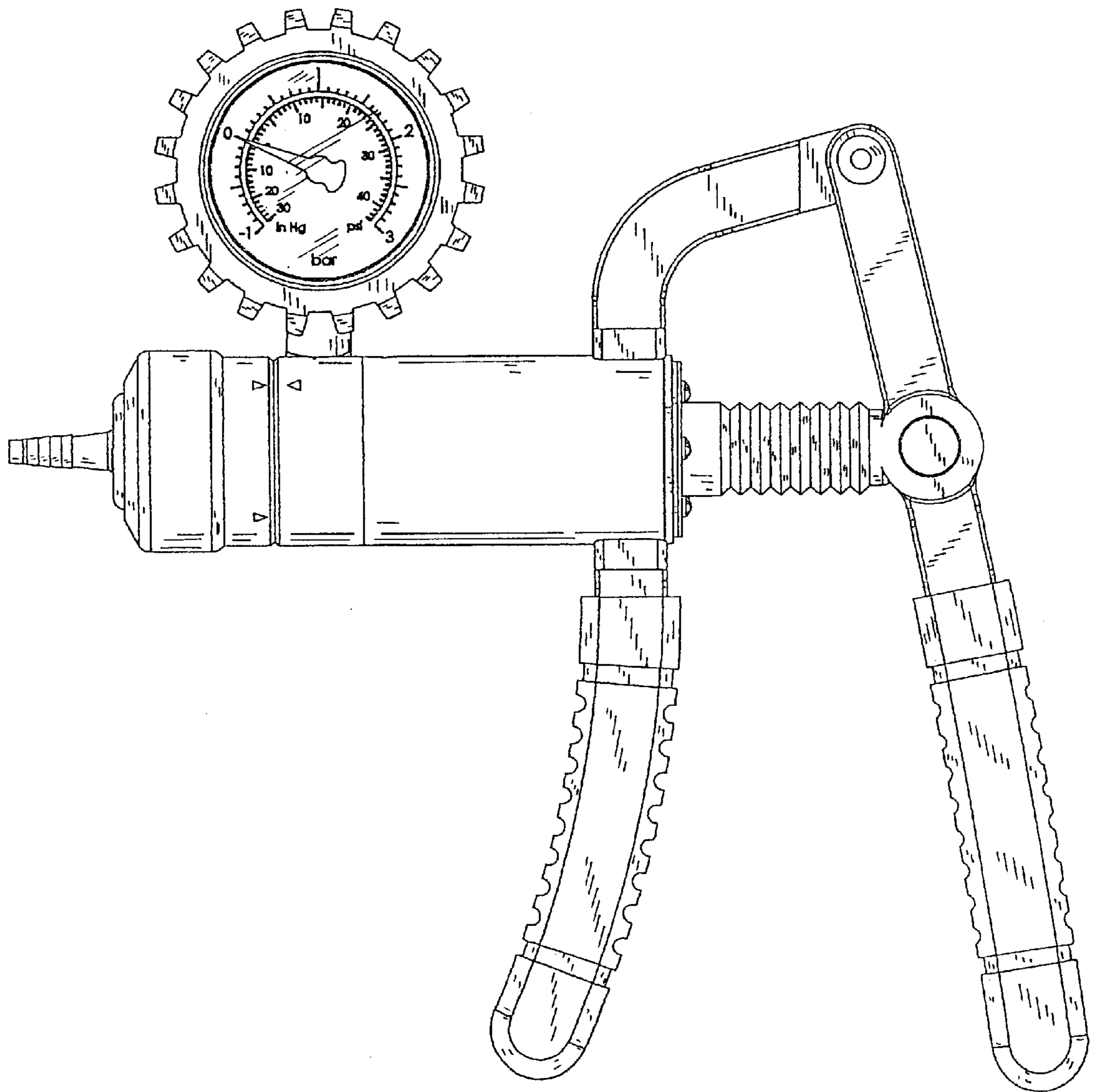


FIG. 2

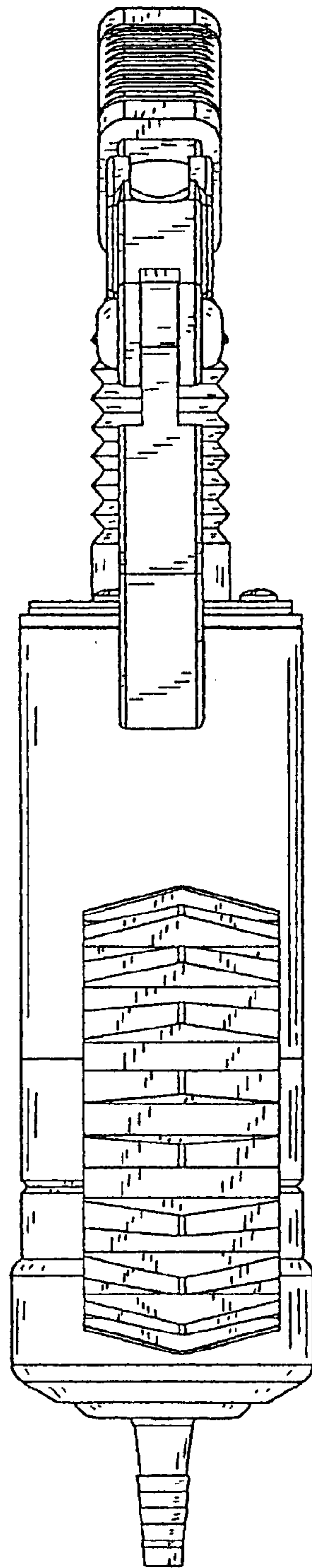


FIG. 3

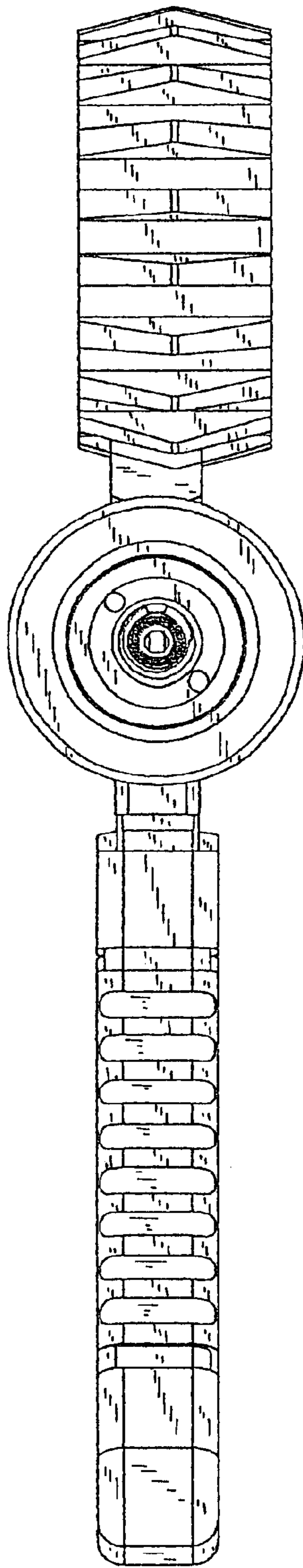


FIG. 4

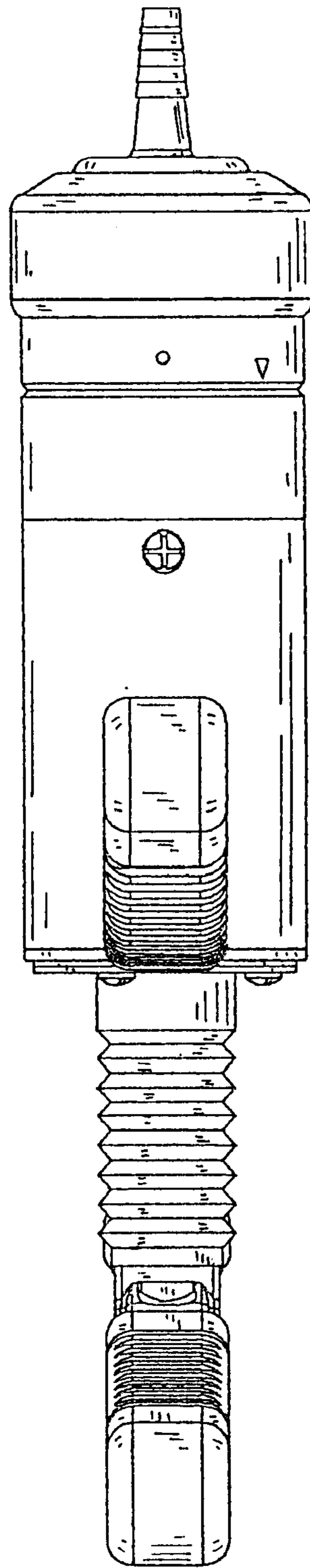


FIG. 5

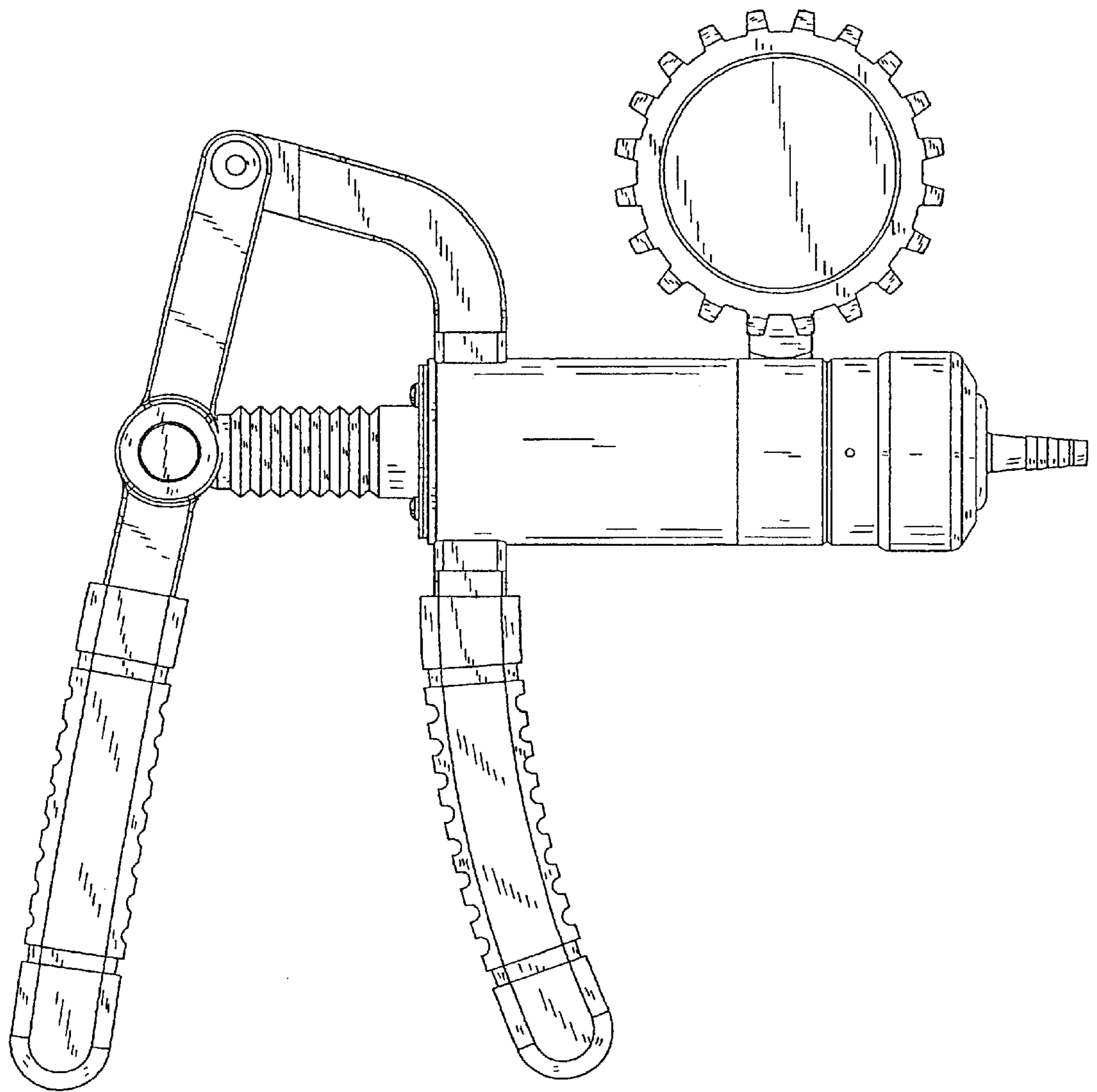


FIG. 6

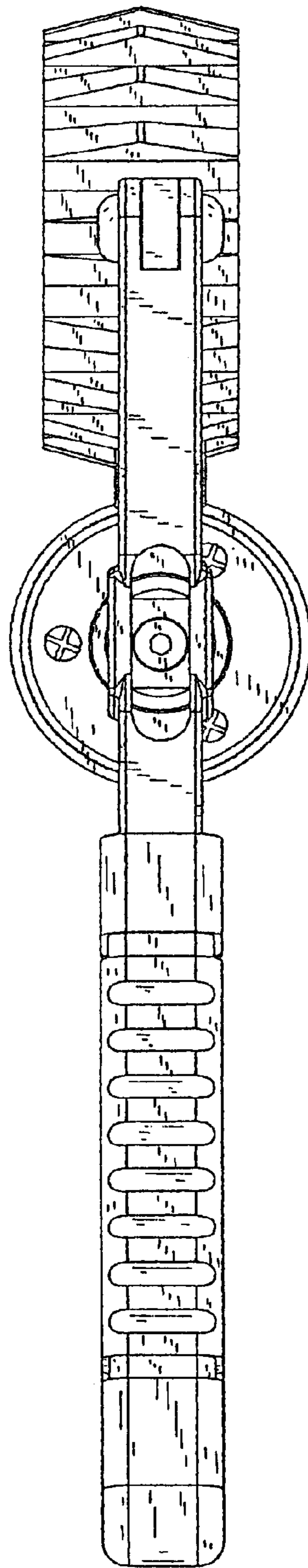


FIG. 7