



US00D640368S

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

(10) **Patent No.:** **US D640,368 S**  
(45) **Date of Patent:** **\*\* Jun. 21, 2011**

(54) **SYRINGE DRIVE DEVICE**  
(75) Inventors: **Soichiro Fujioka**, Osaka (JP); **Mizuho Sakakibara**, Tokyo (JP); **Tohru Nakamura**, Osaka (JP)

6,840,921 B1 \* 1/2005 Haider et al. .... 604/198  
D543,621 S 5/2007 Khalaj  
D576,273 S 9/2008 McClintok et al.  
D603,501 S \* 11/2009 Mudd et al. .... D24/113  
D618,338 S \* 6/2010 Fujioka et al. .... D24/113

(73) Assignee: **Panasonic Corporation**, Osaka (JP)  
(\*\*) Term: **14 Years**

FOREIGN PATENT DOCUMENTS  
JP D1385889 3/2010  
JP D1385890 3/2010  
JP D1385892 3/2010

(21) Appl. No.: **29/366,581**

\* cited by examiner

(22) Filed: **Jul. 27, 2010**

*Primary Examiner* — David Muller

(30) **Foreign Application Priority Data**

(74) *Attorney, Agent, or Firm* — Brinks Hofer Gilson & Lione

Jan. 29, 2010 (JP) ..... 2010-002026

(51) **LOC (9) Cl.** ..... **24-02**

(57) **CLAIM**

(52) **U.S. Cl.** ..... **D24/113**

We claim the ornamental design for a syringe drive device, as shown and described.

(58) **Field of Classification Search** ..... D24/112-114,  
D24/133, 186, 104, 130, 127, 108; 606/181,  
606/185; 604/232, 187, 158, 164.08, 192,  
604/263, 163, 181, 184, 198, 227, 82, 223,  
604/154

**DESCRIPTION**

See application file for complete search history.

FIG. 1 is a top perspective view of a syringe drive device of the present invention;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a first side view thereof;

FIG. 5 is a second side view thereof;

FIG. 6 is a top view thereof;

FIG. 7 is a bottom view thereof; and,

FIG. 8 is a top perspective view thereof shown in an alternate, extended configuration, with a syringe inserted.

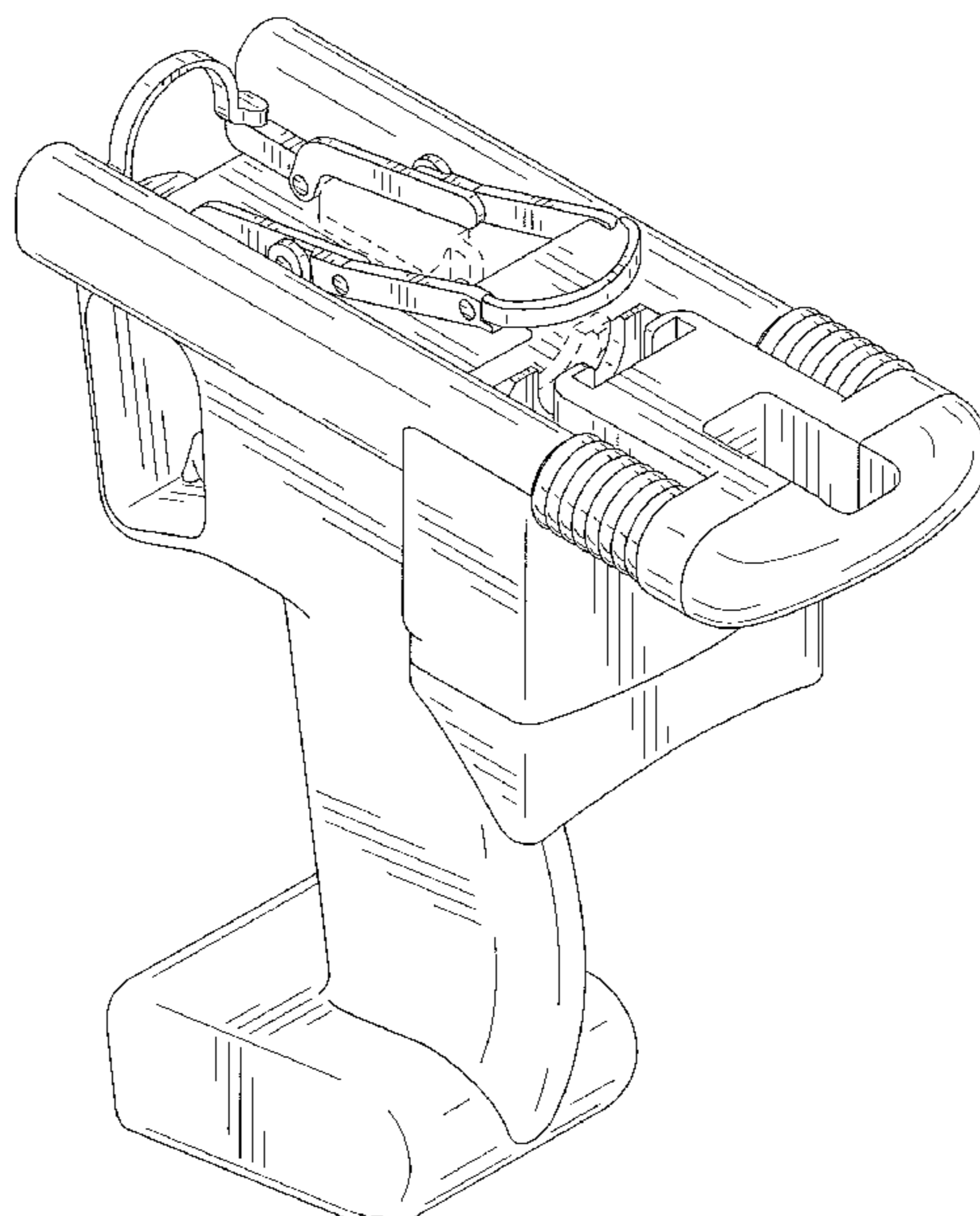
The syringe shown in broken lines in FIG. 8 is included for the purpose of showing use and environment and forms no part of the claimed design. The remaining broken lines in the drawings show environmental structure and form no part of the claimed design.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,819,091 A \* 6/1974 Hollender ..... 604/223  
D246,187 S \* 10/1977 DeArment ..... D24/114  
D263,635 S \* 3/1982 Wendt ..... D24/114  
4,512,767 A 4/1985 Denance  
D337,821 S 7/1993 Tan  
D369,657 S \* 5/1996 McGugan ..... D24/113  
5,672,155 A \* 9/1997 Riley et al. .... 604/154  
D408,527 S \* 4/1999 Coelho et al. .... D24/108  
D409,304 S \* 5/1999 King ..... D24/112  
D416,087 S \* 11/1999 King ..... D24/114  
6,394,982 B1 \* 5/2002 Ehrenfels ..... 604/187  
6,585,696 B2 \* 7/2003 Petersen et al. .... 604/82

**1 Claim, 8 Drawing Sheets**



**FIG.1**

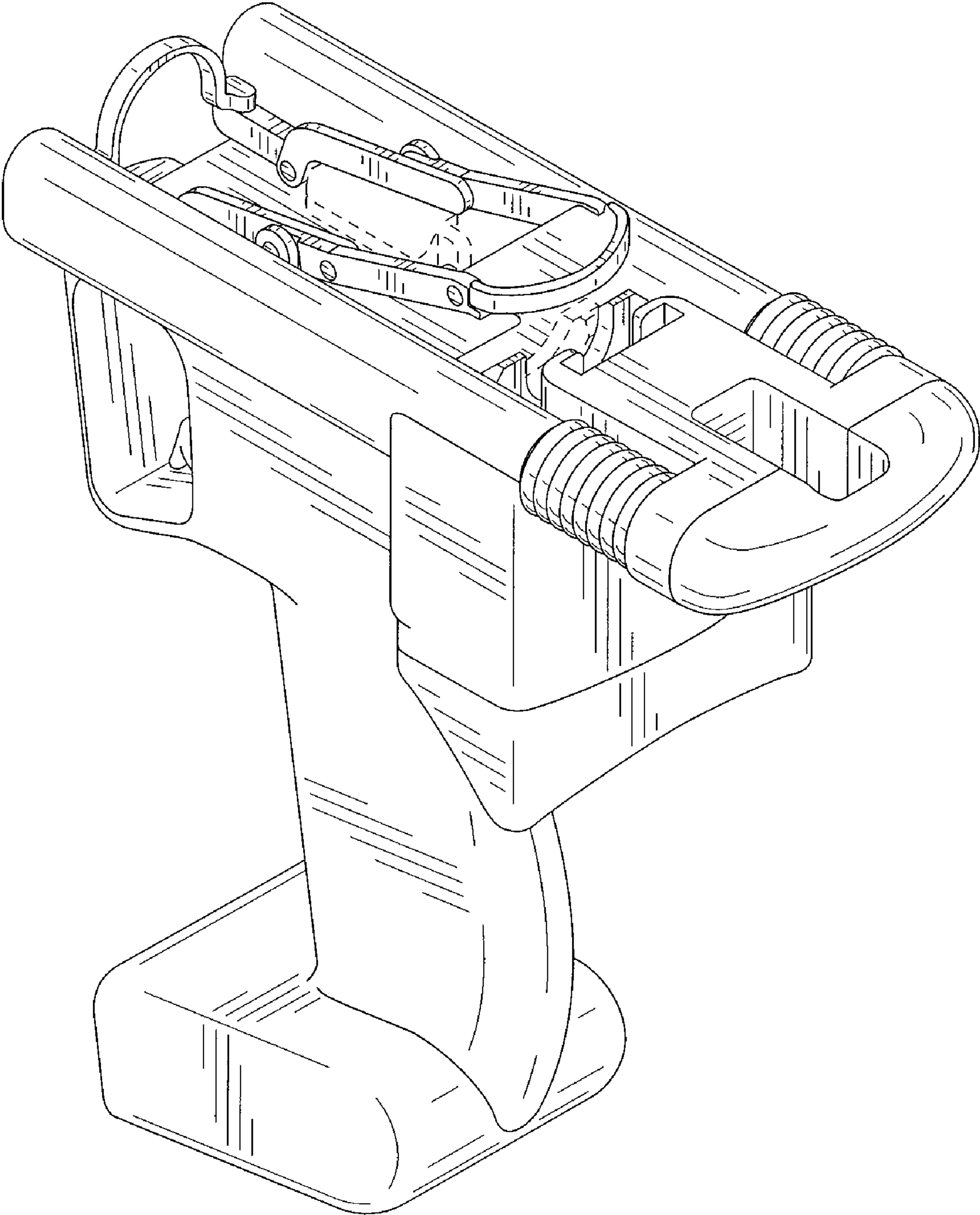


FIG.2

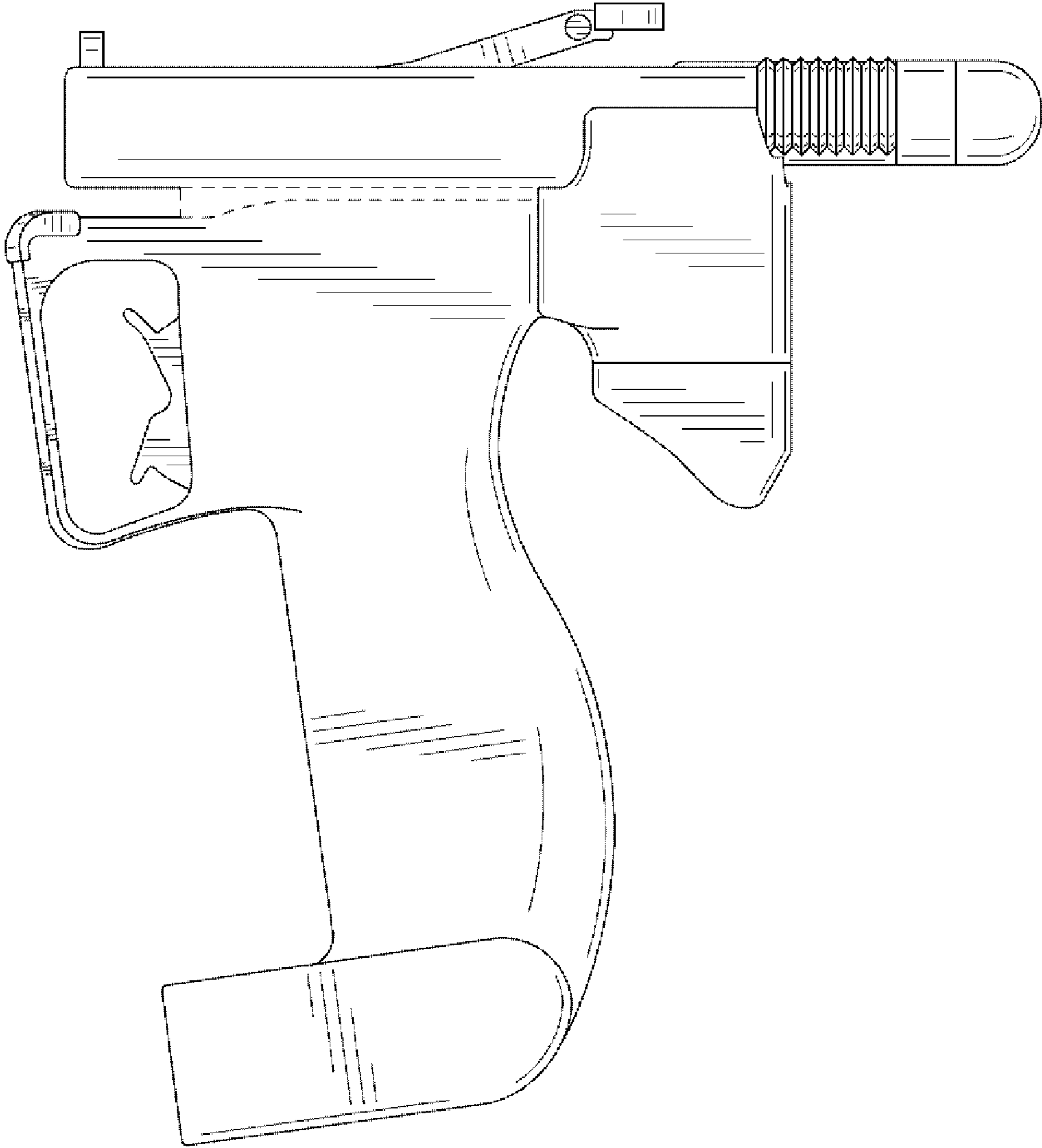
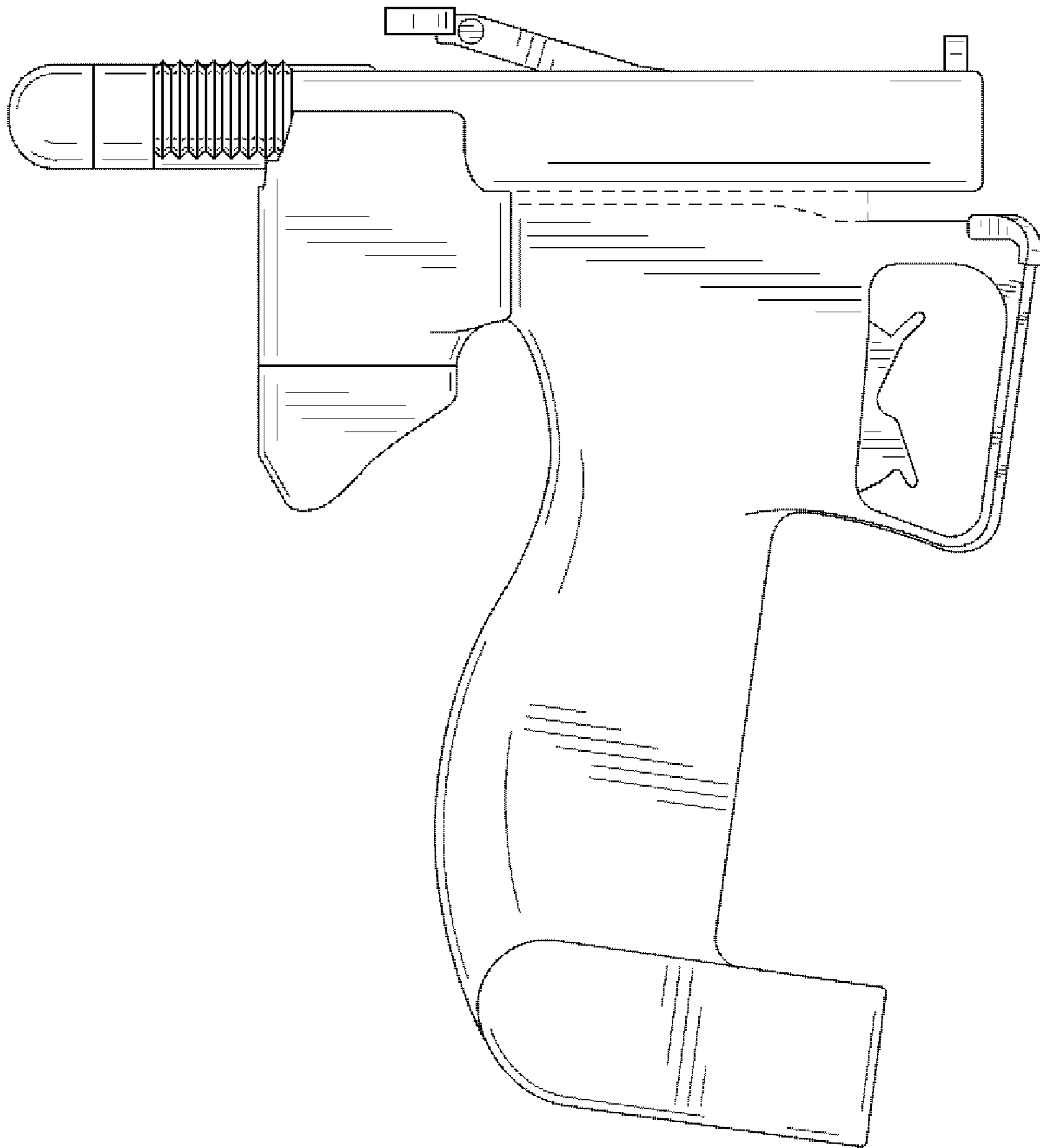


FIG.3



**FIG.4**

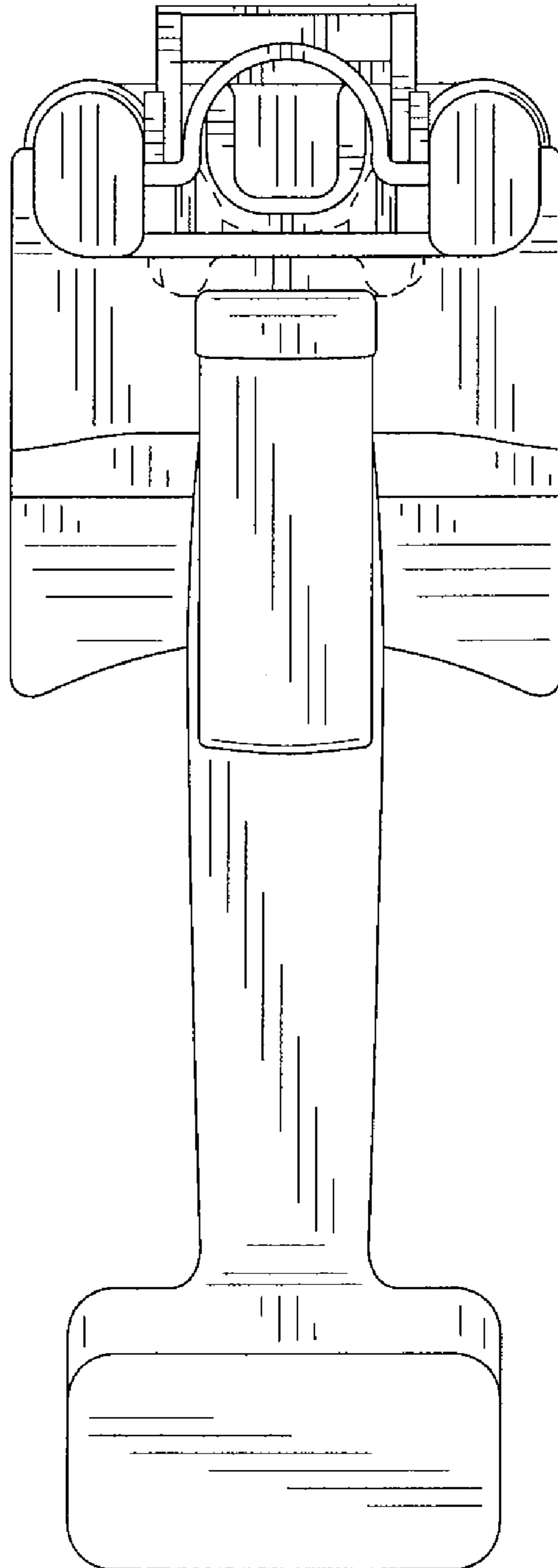


FIG. 5

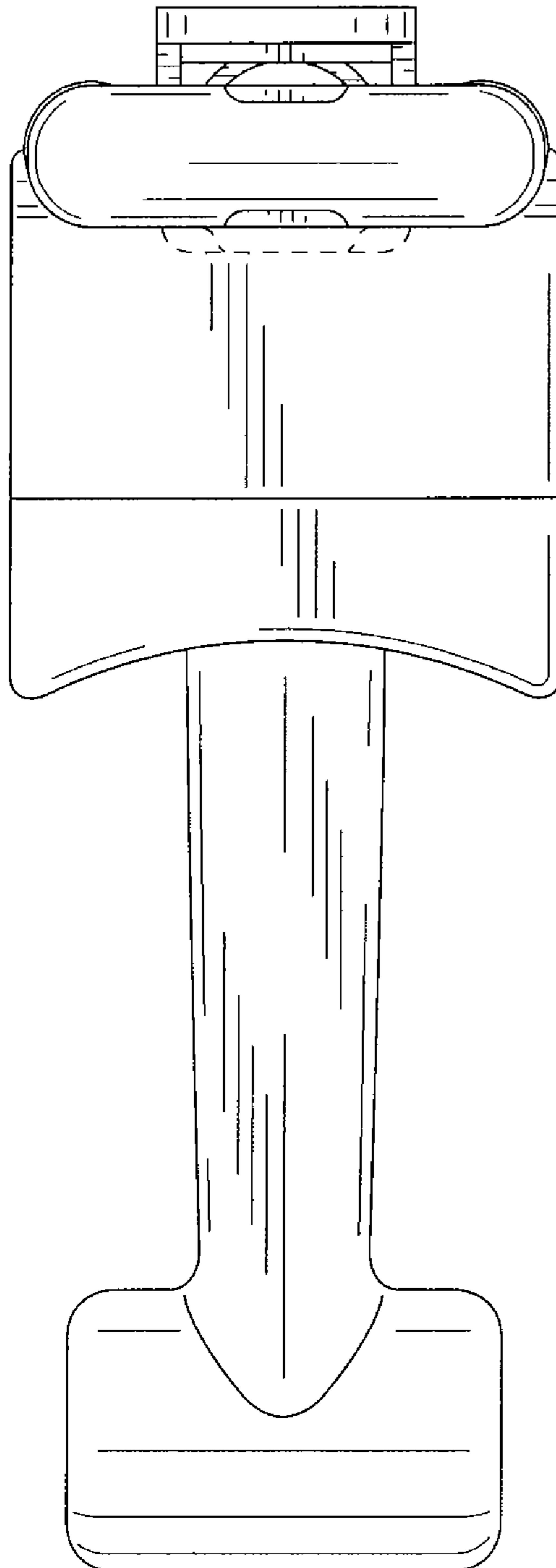


FIG.6

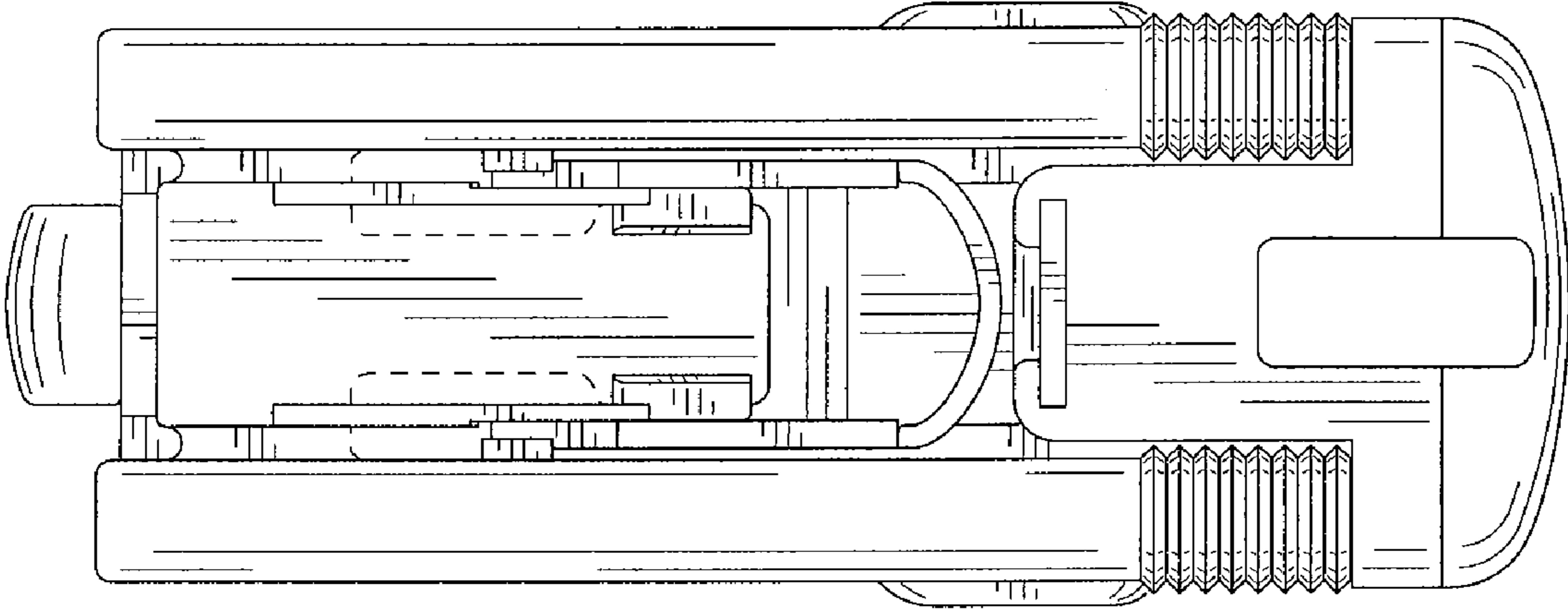


FIG.7

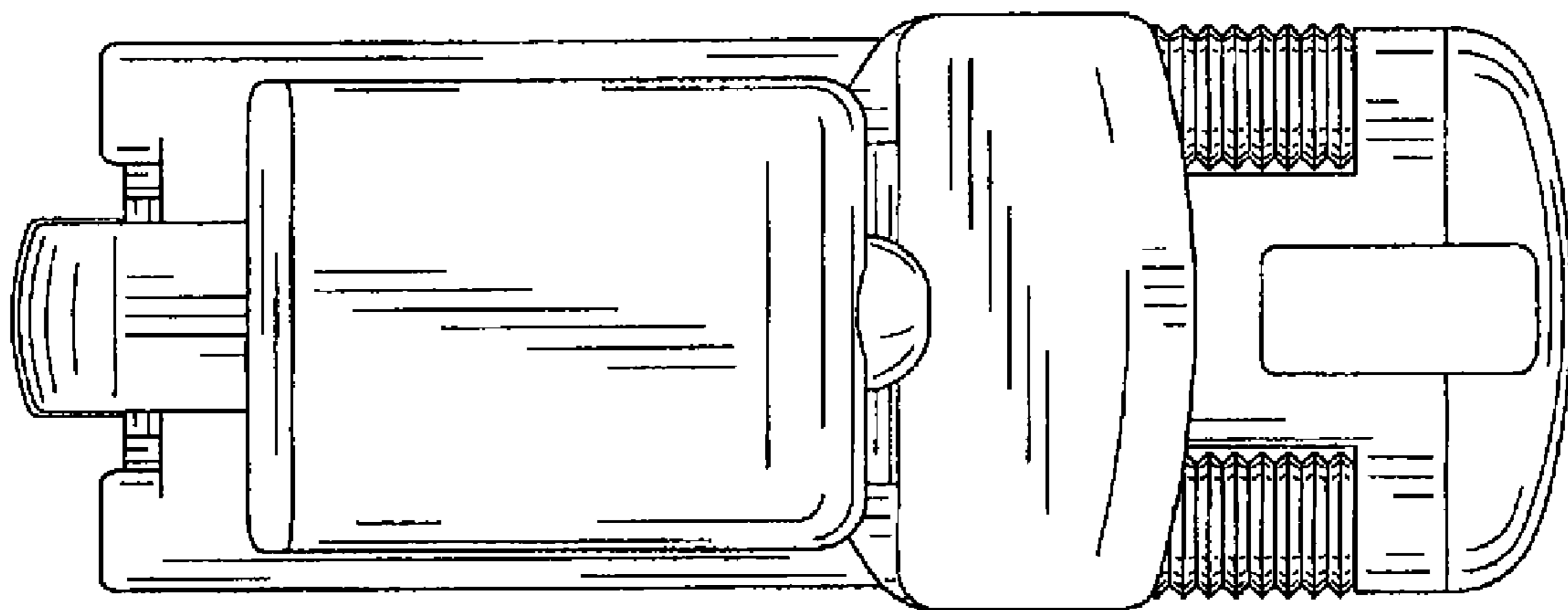




FIG.8

