



US00D453147S

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

(10) **Patent No.:** **US D453,147 S**

(45) **Date of Patent:** **\*\* Jan. 29, 2002**

(54) **PHOTOELECTRIC SWITCH**

**OTHER PUBLICATIONS**

(75) Inventors: **Toshinori Sato; Toshiyuki Higuchi,**  
both of Kyoto (JP)

Keyence Corporation, Sensor 2000, Product Nos. FS01 and FS-V1, Japan (undated).

(73) Assignee: **Omron Corporation,** Kyoto (JP)

\* cited by examiner

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

*Primary Examiner*—Ted Shooman

*Assistant Examiner*—Selina Sikder

(21) Appl. No.: **29/124,039**

(74) *Attorney, Agent, or Firm*—Dickstein Shapiro Morin & Oshinsky LLP

(22) Filed: **May 30, 2000**

(30) **Foreign Application Priority Data**

(57) **CLAIM**

Nov. 30, 1999 (JP) ..... 11-33064

The ornamental design for a photoelectric switch, as shown and described.

(51) **LOC (7) Cl.** ..... **13-03**

**DESCRIPTION**

(52) **U.S. Cl.** ..... **D13/165**

(58) **Field of Search** ..... D13/158, 159,  
D13/164, 165, 170; 250/201.1, 206, 239,  
221, 222.1

FIG. 1 is a perspective view of the top, front and right side of a photoelectric switch showing our new design;

FIG. 2 is a perspective view of the top, rear and left side thereof;

FIG. 3 is a top plan view thereof;

FIG. 4 is a front view thereof;

FIG. 5 is a bottom view thereof;

FIG. 6 is a left side view thereof;

FIG. 7 is a right side view thereof;

FIG. 8 is a rear view thereof; and,

FIG. 9 is a perspective view thereof with the cover in open condition.

(56) **References Cited**

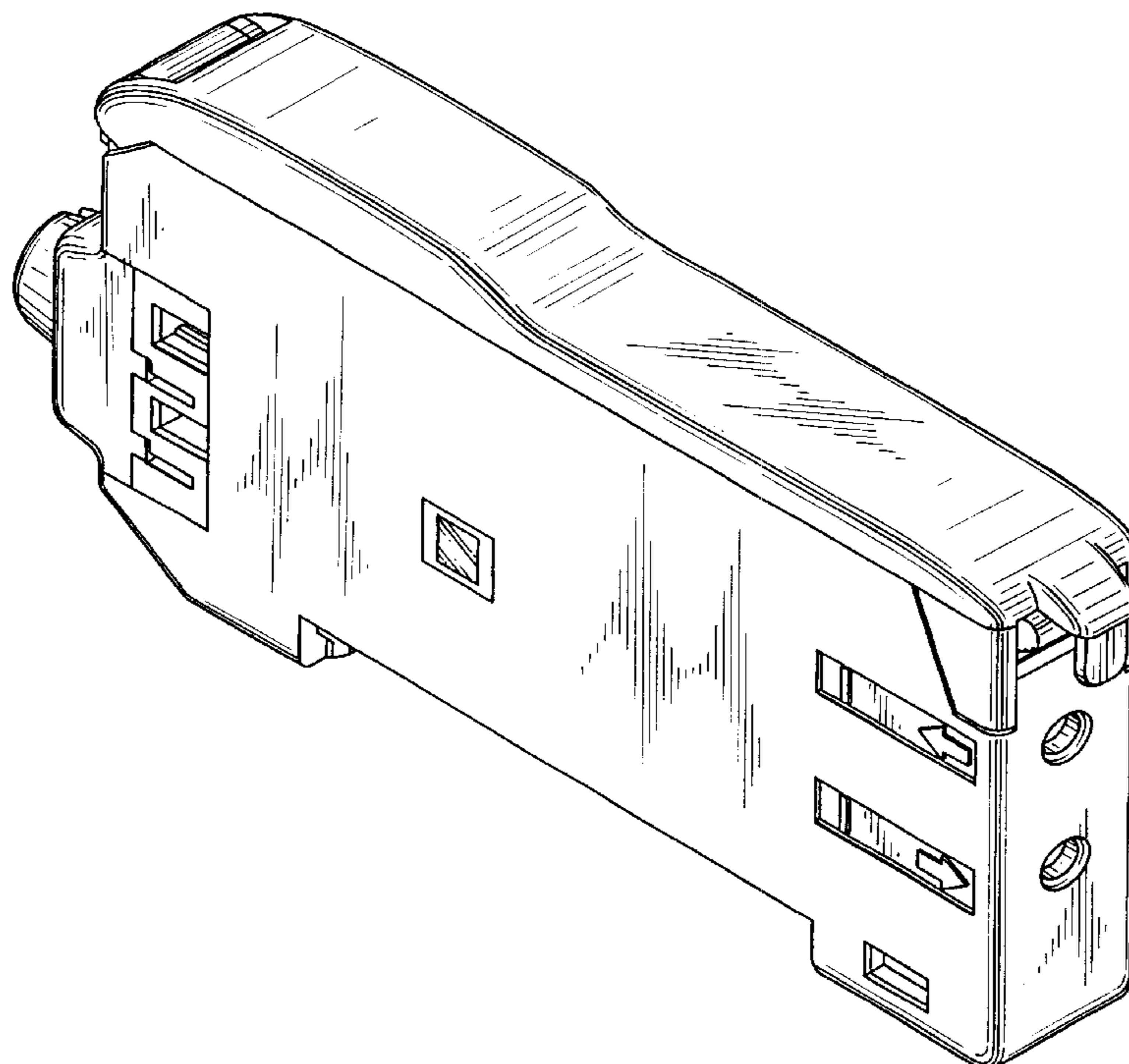
**U.S. PATENT DOCUMENTS**

- 3,584,222 A \* 6/1971 Nesbitt ..... 250/206
- D224,318 S \* 7/1972 Kelm ..... D13/165
- D313,397 S \* 1/1991 Willcox ..... D13/168
- 5,003,169 A \* 3/1991 Sakaguchi ..... 250/221
- D325,376 S \* 4/1992 Krasser ..... D13/160
- D421,422 S \* 3/2000 La Police ..... D13/165
- 6,140,633 A \* 10/2000 Iwasaki et al. .... 250/221

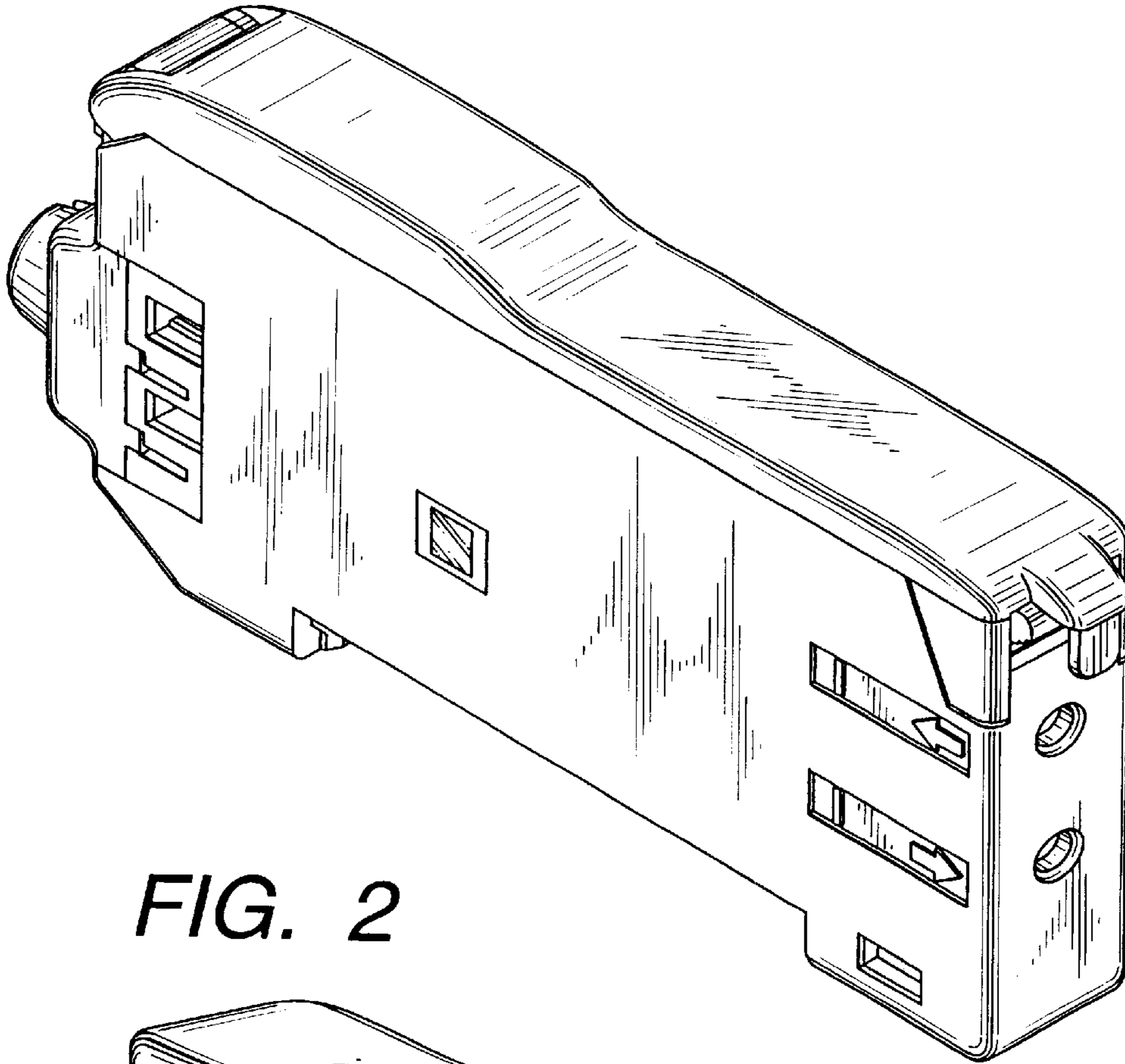
**FOREIGN PATENT DOCUMENTS**

JP 1057950 9/1999

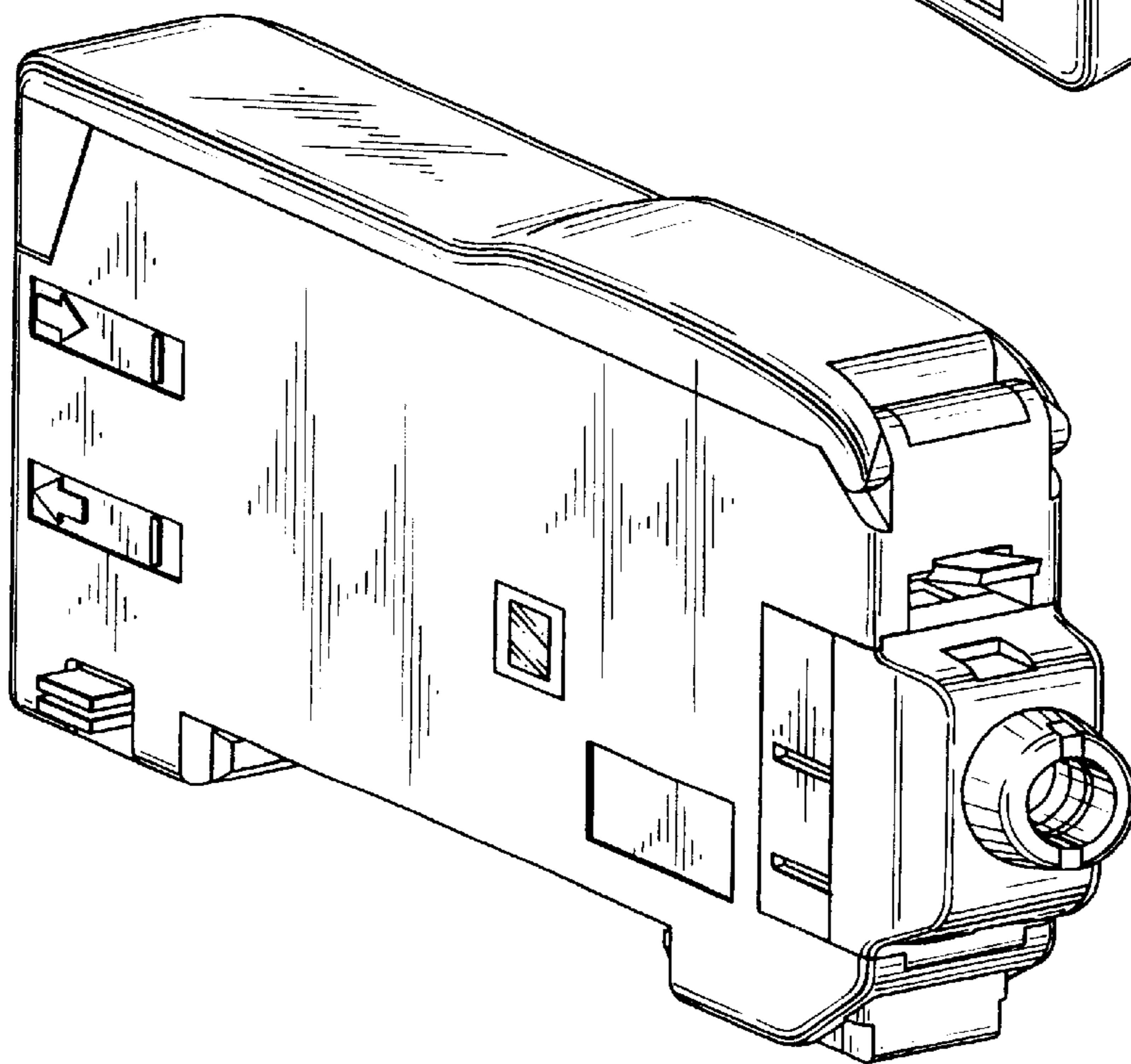
**1 Claim, 4 Drawing Sheets**



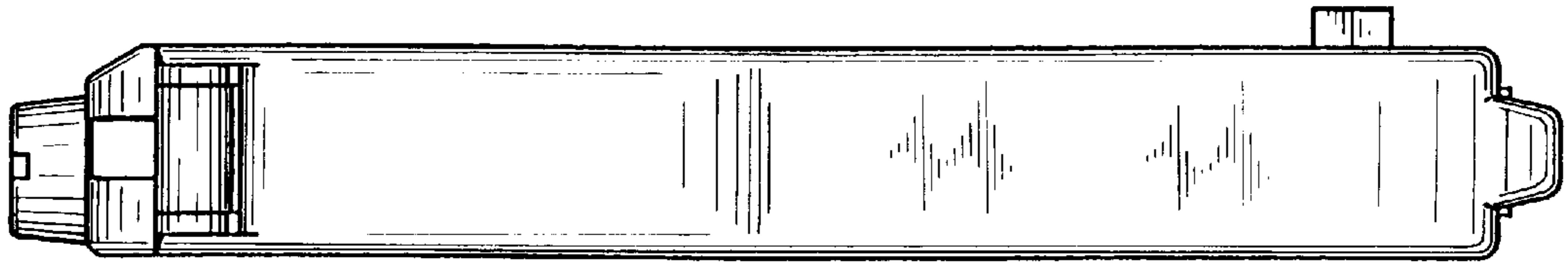
*FIG. 1*



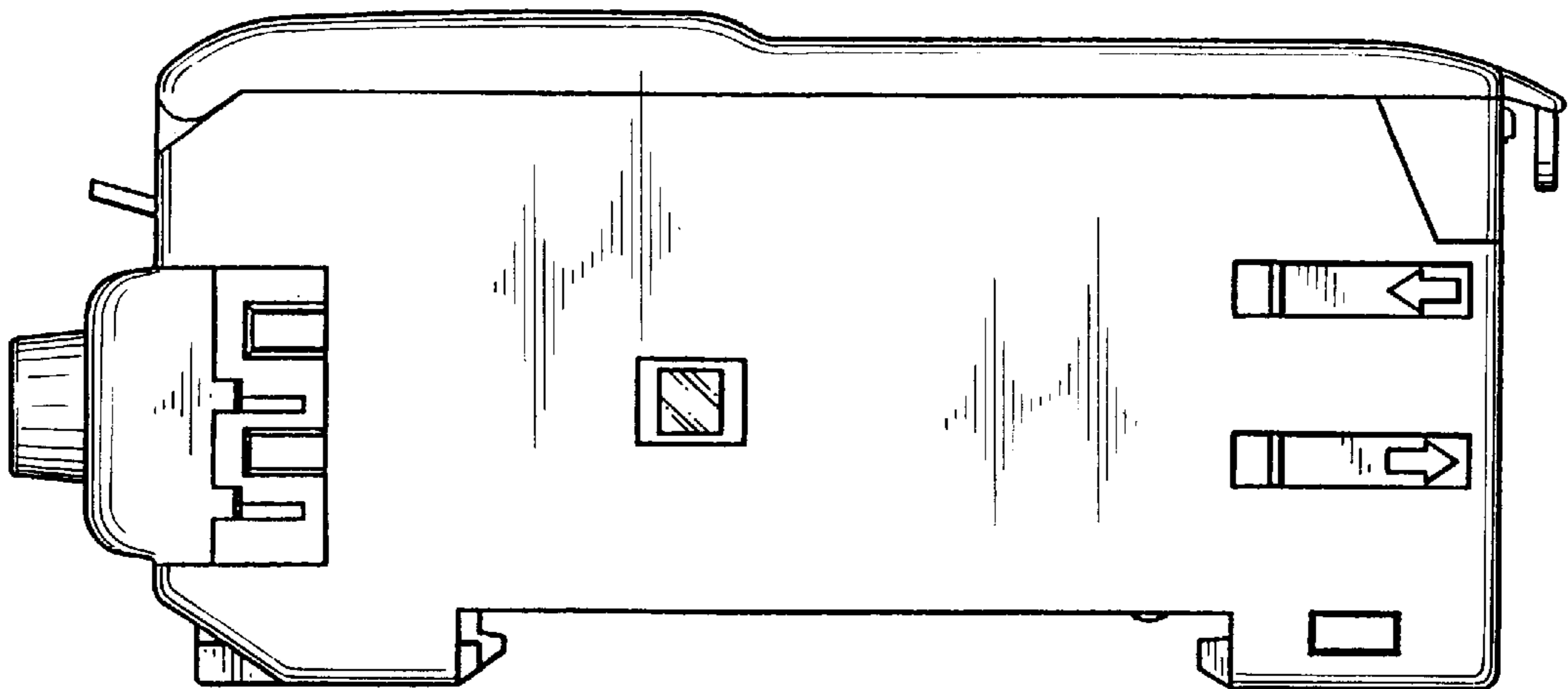
*FIG. 2*



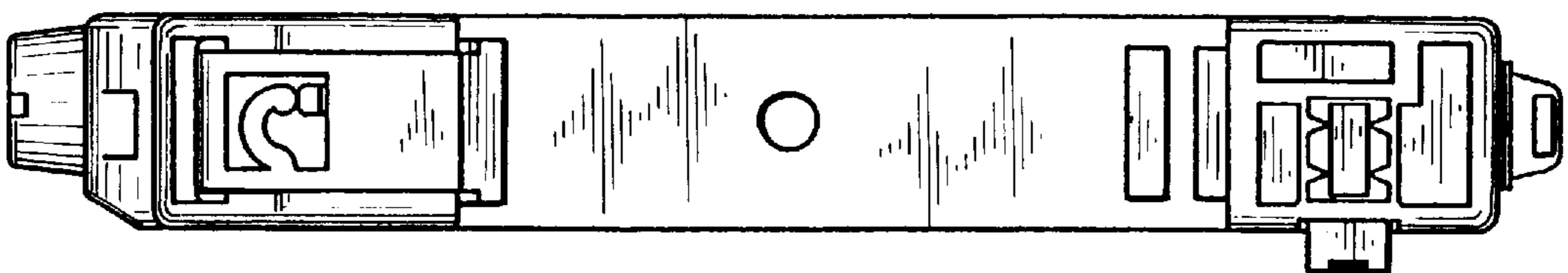
*FIG. 3*



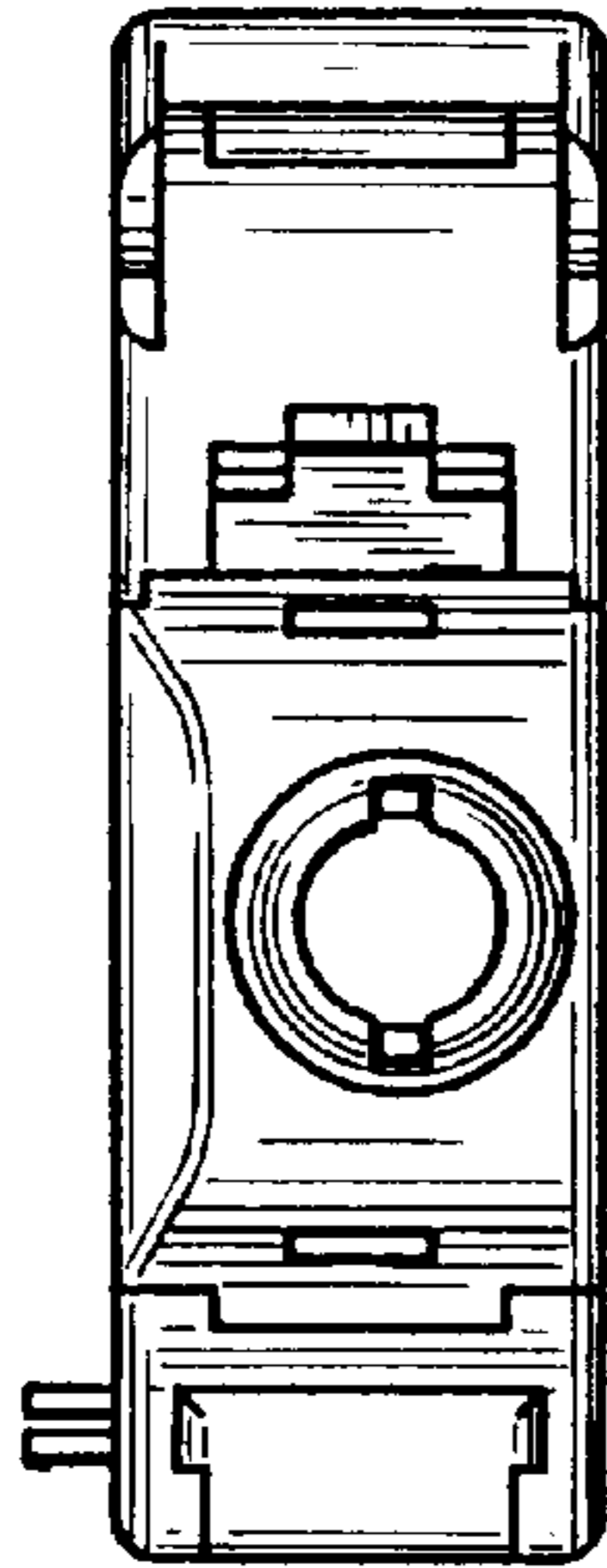
*FIG. 4*



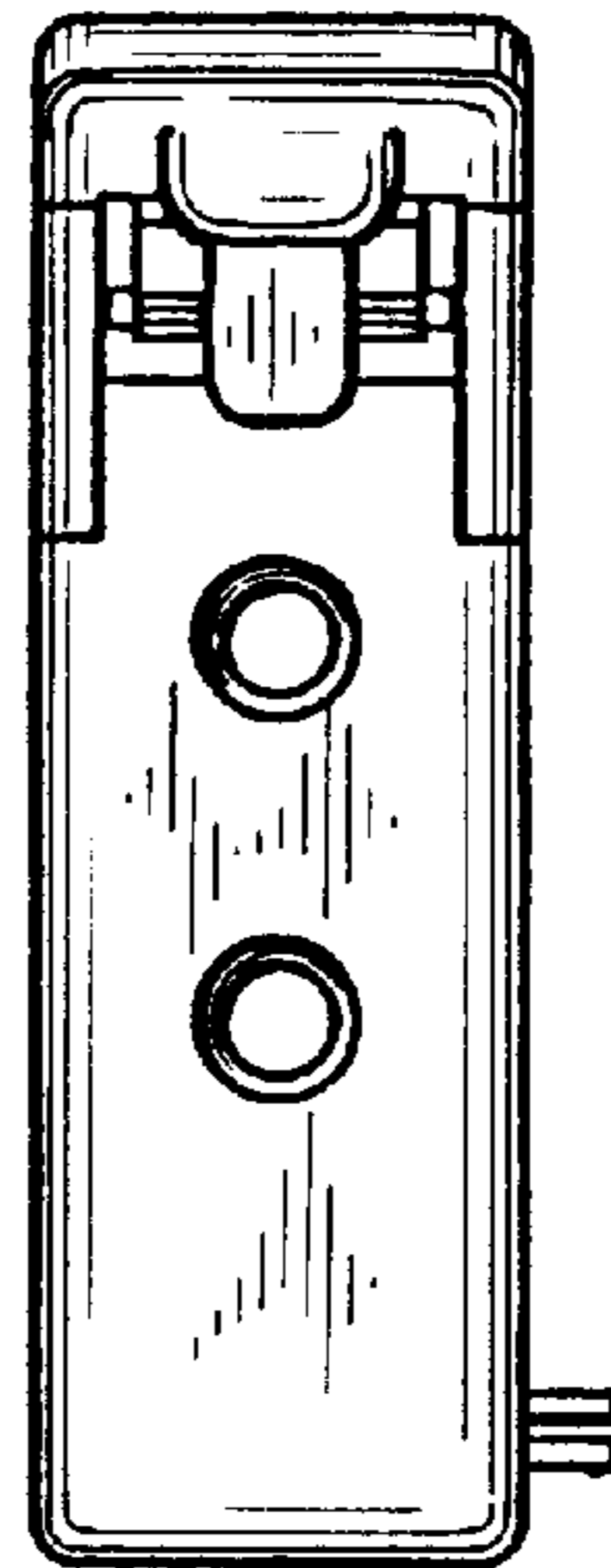
*FIG. 5*



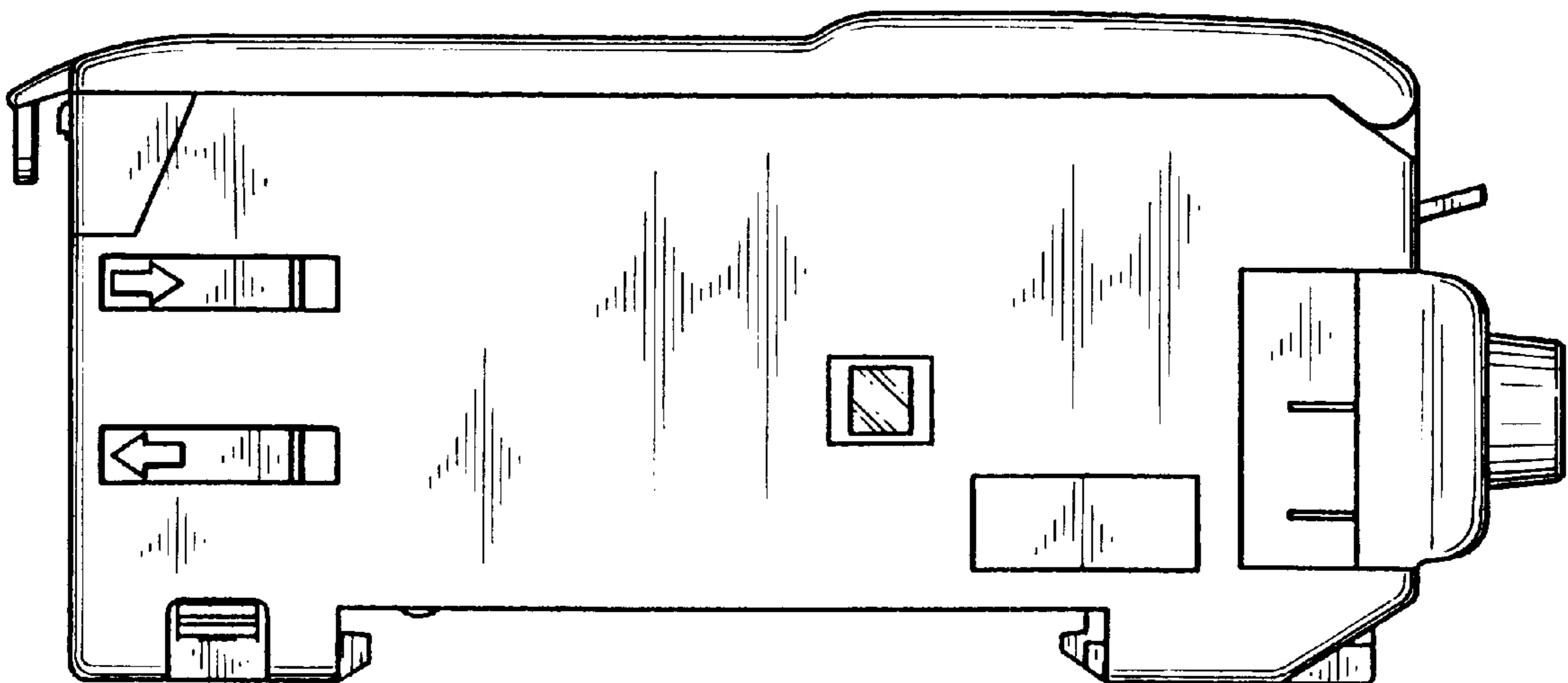
*FIG. 6*



*FIG. 7*



*FIG. 8*



*FIG. 9*

