



US00D710224S

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

(10) **Patent No.:** **US D710,224 S**  
(45) **Date of Patent:** **\*\* Aug. 5, 2014**

(54) **FORCE GAUGE**

(71) Applicants: **Mitsuhiko Imada**, Toyohashi (JP);  
**Yoshihiro Sahara**, Toyohashi (JP); **Ikko Inaguma**, Toyohashi (JP)

(72) Inventors: **Mitsuhiko Imada**, Toyohashi (JP);  
**Yoshihiro Sahara**, Toyohashi (JP); **Ikko Inaguma**, Toyohashi (JP)

(73) Assignee: **Imada Co., Ltd.**, Aichi (JP)

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

(21) Appl. No.: **29/433,210**

(22) Filed: **Sep. 27, 2012**

(30) **Foreign Application Priority Data**

Aug. 8, 2012 (JP) ..... 2012-019067

(51) **LOC (10) Cl.** ..... **10-04**

(52) **U.S. Cl.**  
USPC ..... **D10/83**

(58) **Field of Classification Search**  
USPC ..... D10/83-85; 73/862-862.382,  
73/379.01-379.09; 600/587  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- 4,501,148 A \* 2/1985 Nicholas et al. .... 73/379.08
- 4,802,540 A \* 2/1989 Grabovac et al. .... 177/211
- 5,433,116 A \* 7/1995 Ahlstrom et al. .... 73/828
- 5,467,656 A \* 11/1995 Teare et al. .... 73/862.541
- 5,471,885 A \* 12/1995 Wagner ..... 73/862.041
- D395,835 S \* 7/1998 Okuyama et al. .... D10/85
- D427,923 S \* 7/2000 Jonsson et al. .... D10/85
- 6,134,974 A \* 10/2000 Grover ..... 73/862.451

- 6,786,092 B2 \* 9/2004 Nakao ..... 73/379.03
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- 7,475,607 B2 \* 1/2009 Oboodi et al. .... 73/862.639
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- 8,215,187 B2 \* 7/2012 Chen ..... 73/862.21

\* cited by examiner

*Primary Examiner* — Antoine D Davis

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

(57) **CLAIM**

The ornamental design for a force gauge, as shown and described.

**DESCRIPTION**

FIG. 1 is a front view of the force gauge, showing the new design;

FIG. 2 is a rear view thereof;

FIG. 3 is right-side view thereof;

FIG. 4 is a left-side view thereof;

FIG. 5 is a top view thereof;

FIG. 6 is a bottom view thereof; and,

FIG. 7 is a front, left side, and bottom perspective view thereof.

The force gauge is a digital force gauge having a tip screw axis where an attachment is equipped, which measures tension and/or compression. The gauge may be used by hand and may also be used an uncomplicated testing machine in combination with a test stand. A measured value may be stored in the article and/or the value may be stored in one or more external memories (for example, a USB flash memory). The gauge may be connected to a personal computer, for example, by a USB cable, such that high speed transmission of a measured value may be carried out in real time.

The broken line showing of the force gauge is for the purpose of illustrating portions of the article and forms no part of the claimed design.

**1 Claim, 4 Drawing Sheets**

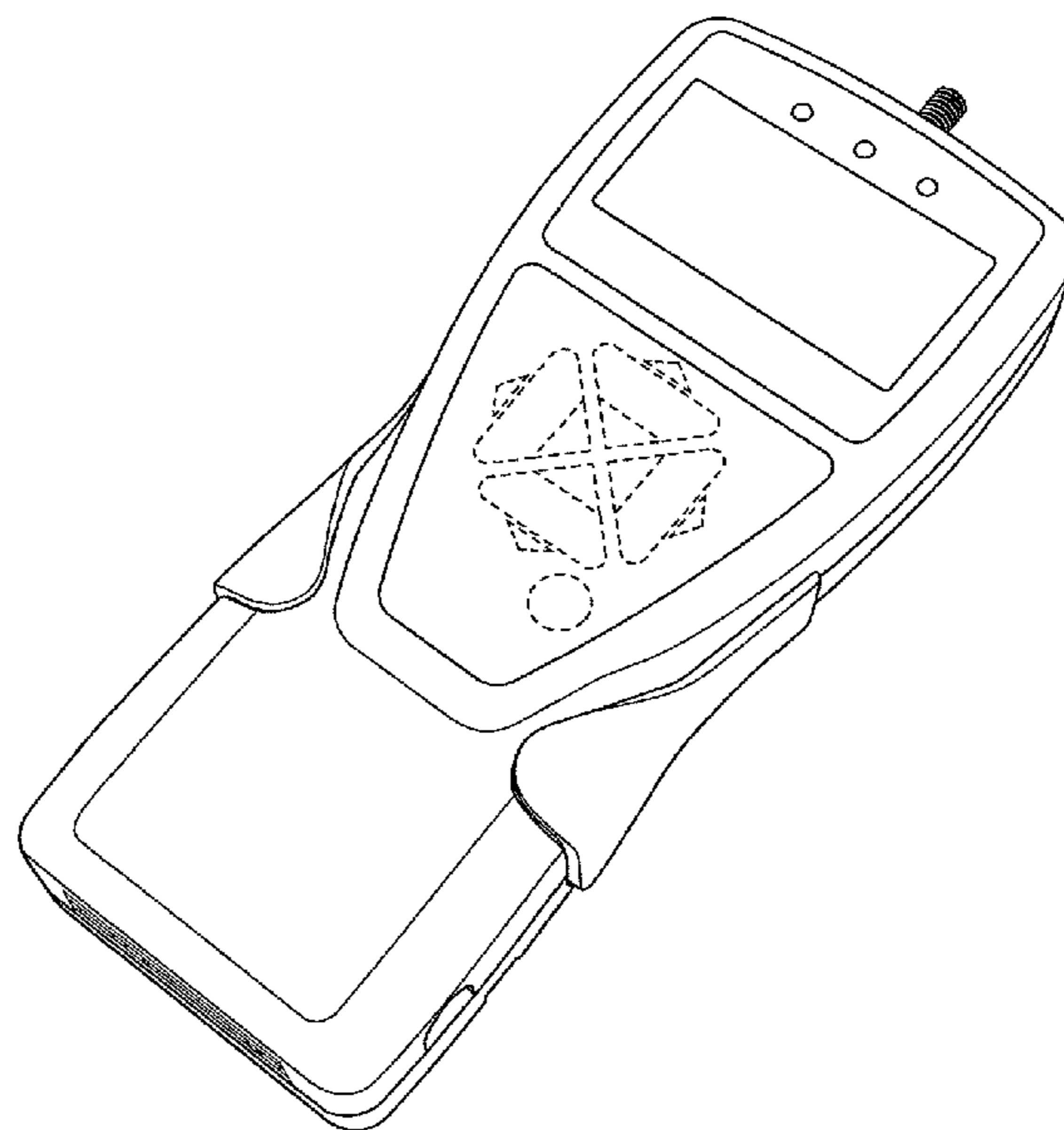


FIG.1

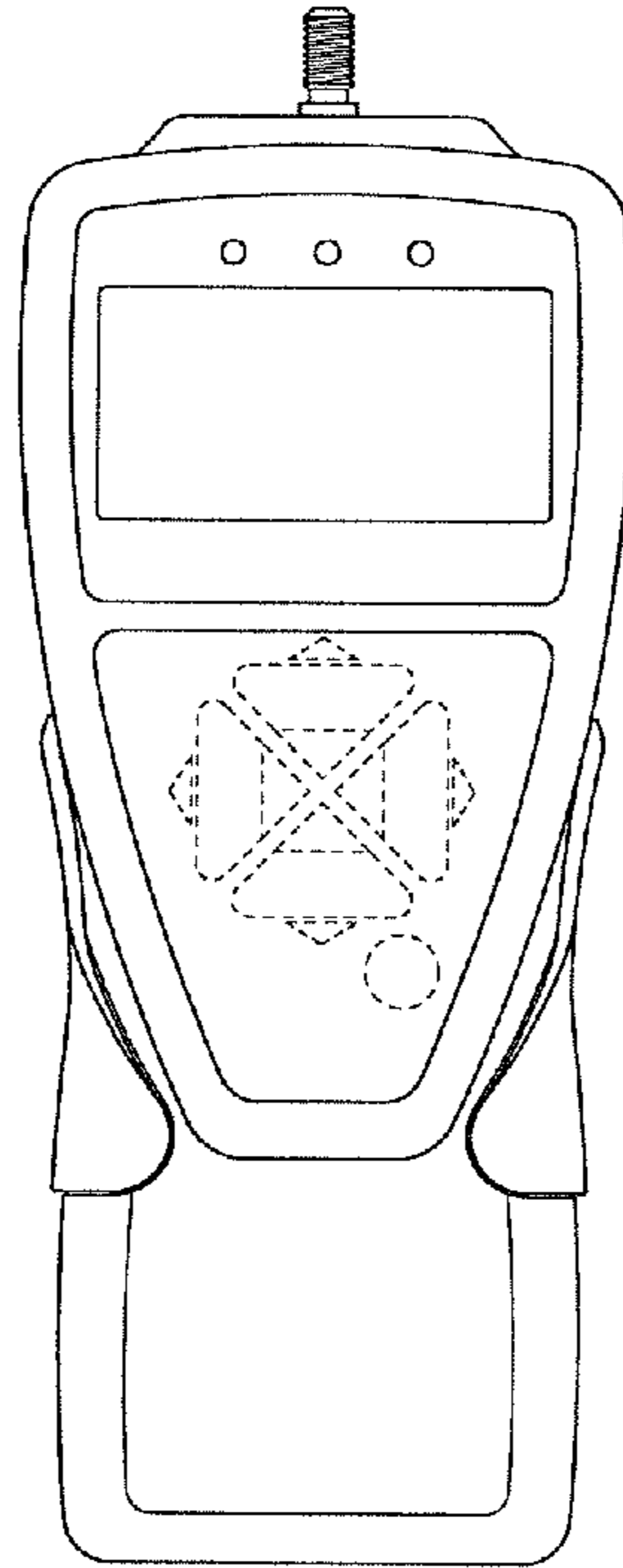


FIG.2

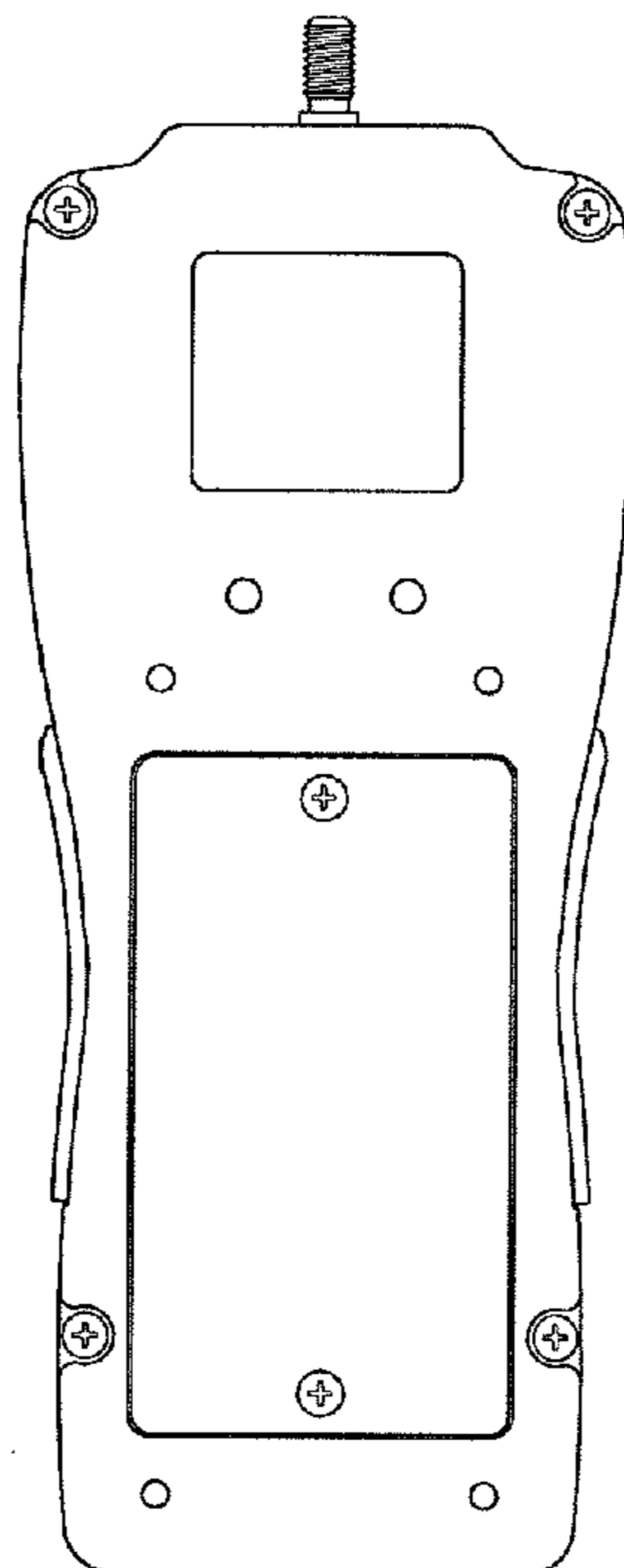


FIG.3

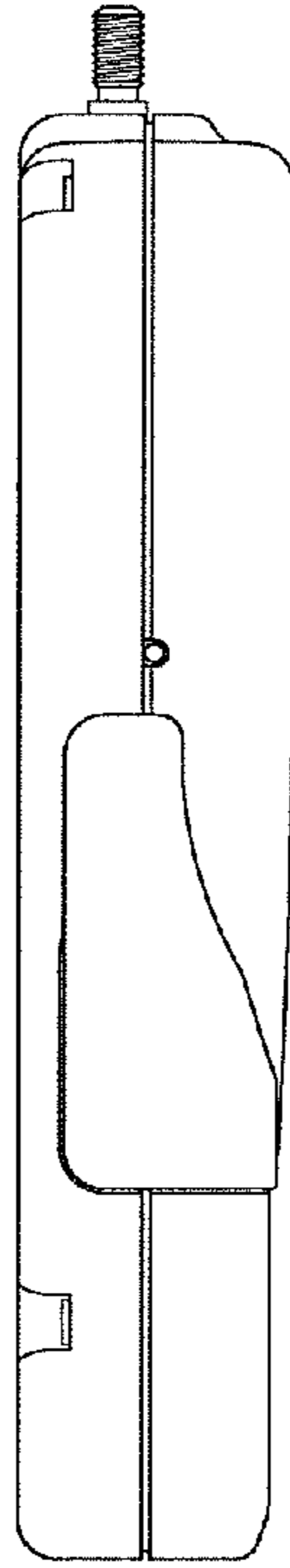


FIG.4

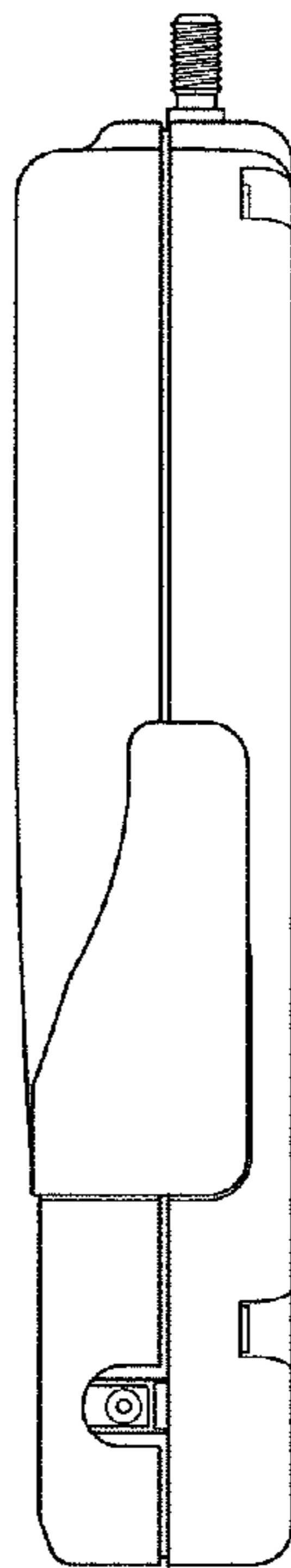


FIG.5

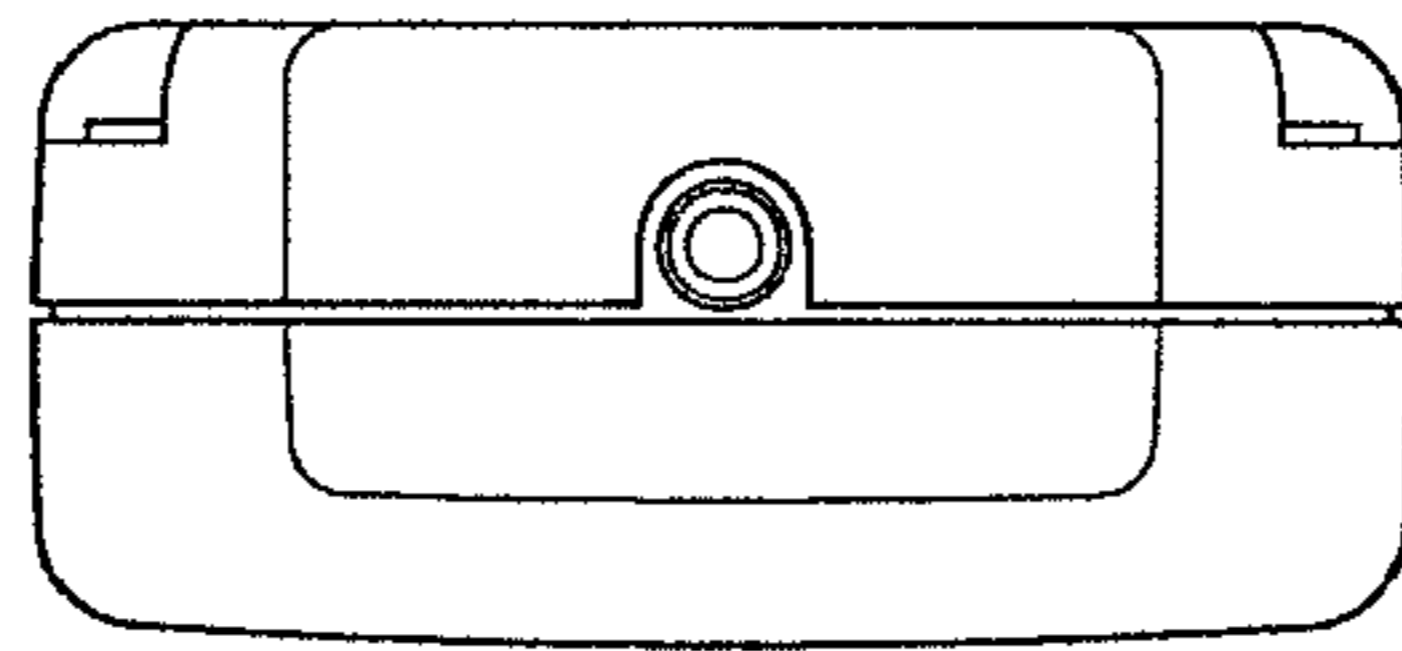


FIG.6

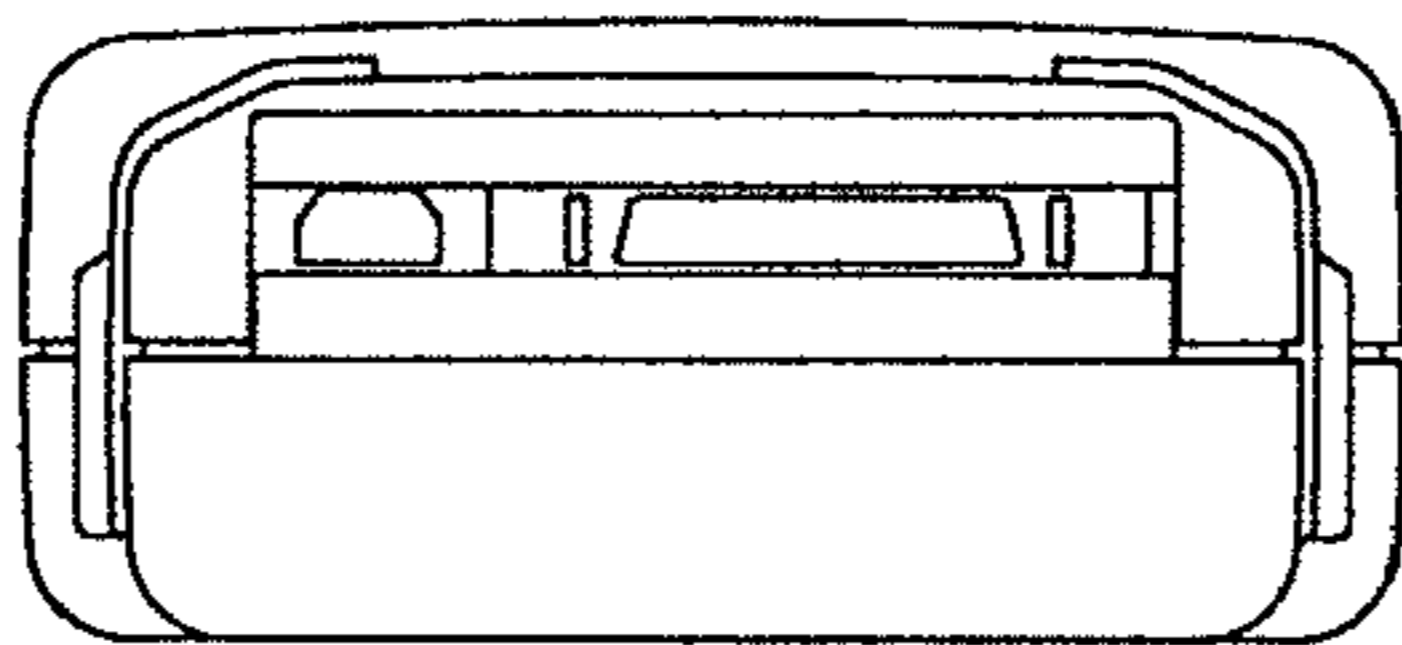
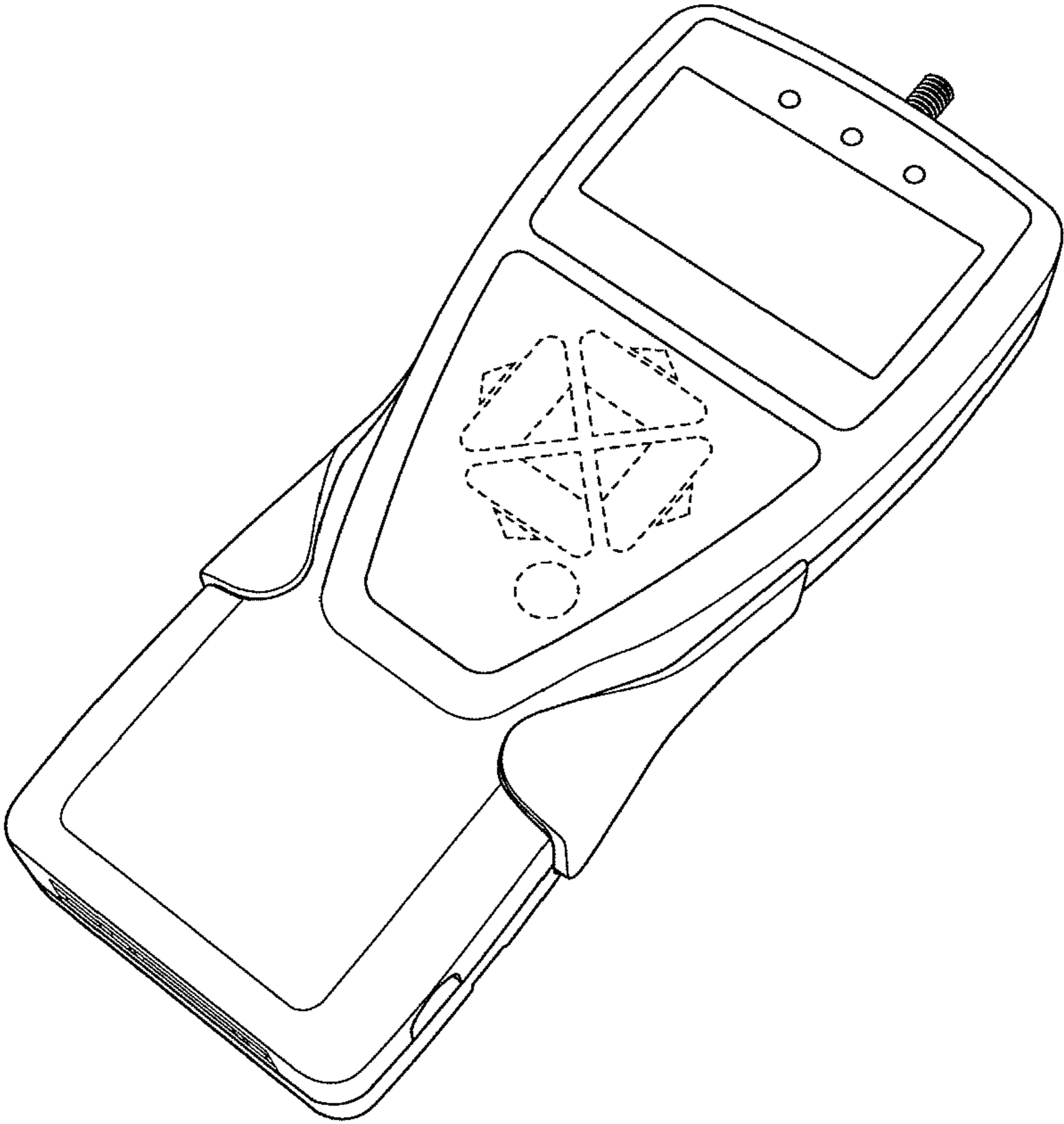


FIG.7



UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : D710,224 S  
APPLICATION NO. : 29/433210  
DATED : August 5, 2014  
INVENTOR(S) : Mitsuhiro Imada et al.

Page 1 of 6

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The Title Page should be substituted with the attached Title Page.

In the Drawings:

Patentee notes that the wrong drawings were published in the Patent. The correct drawings to be published in the above-referenced Patent are attached hereto.

Signed and Sealed this  
Twenty-eighth Day of October, 2014



Michelle K. Lee  
*Deputy Director of the United States Patent and Trademark Office*



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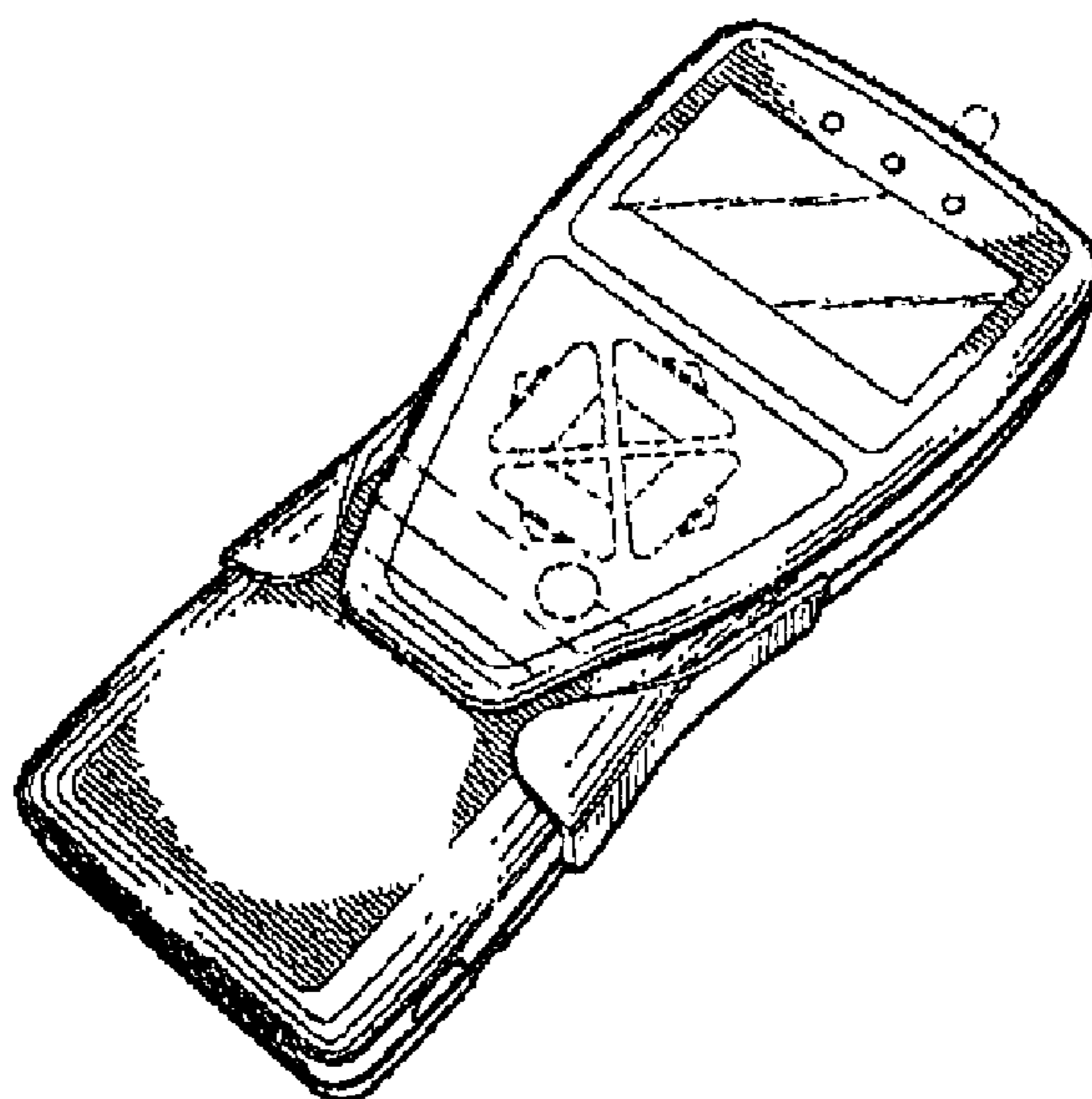
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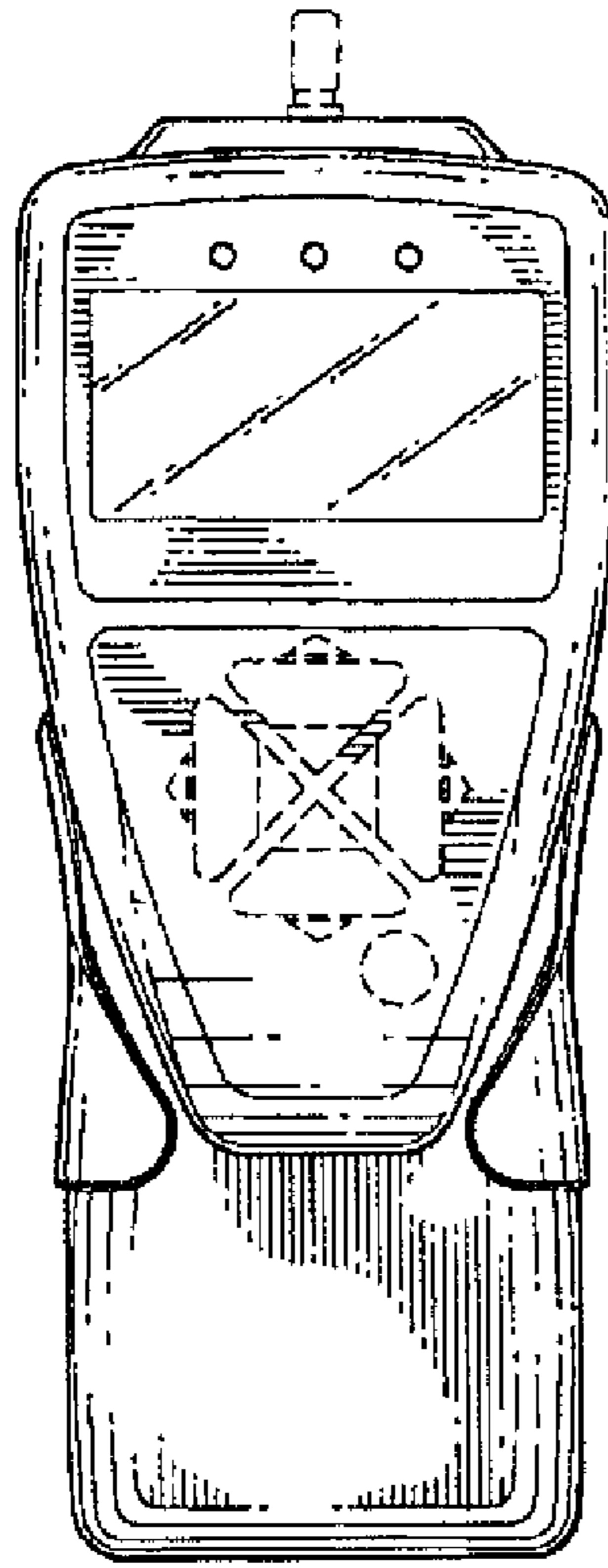


FIG.1

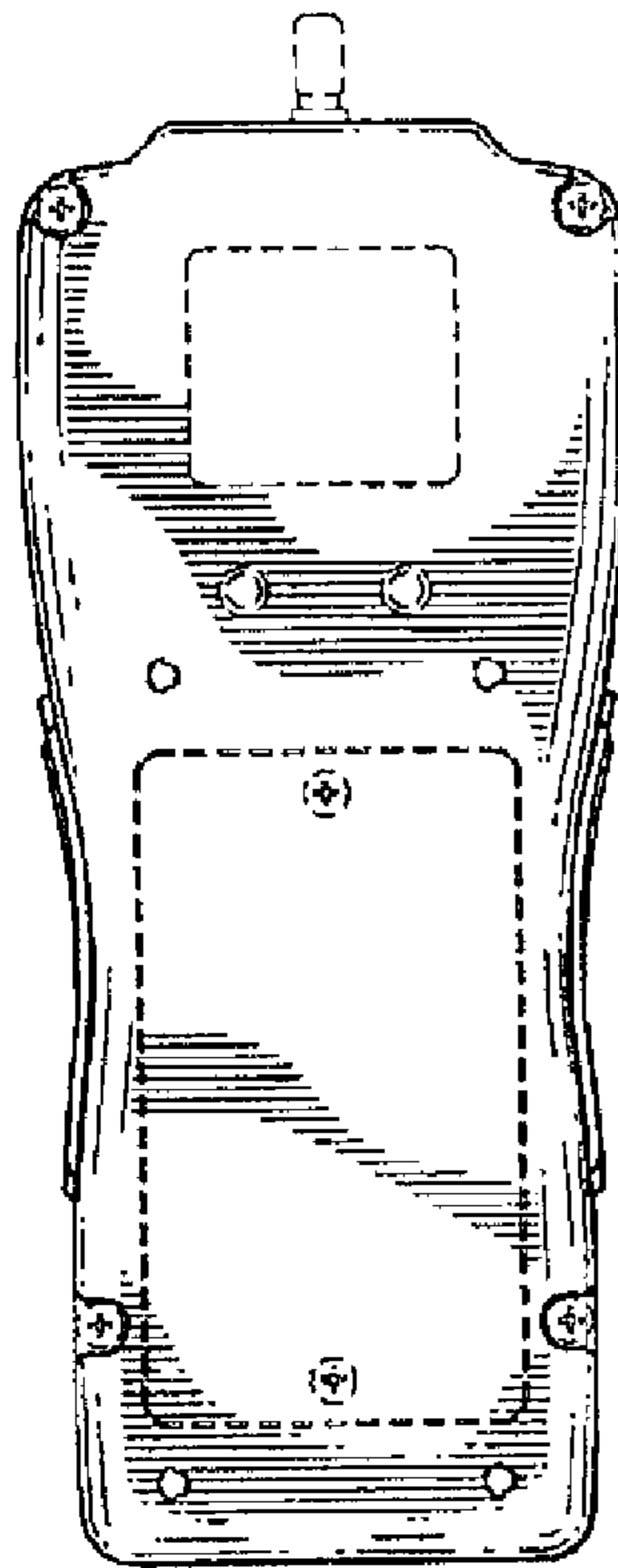


FIG.2



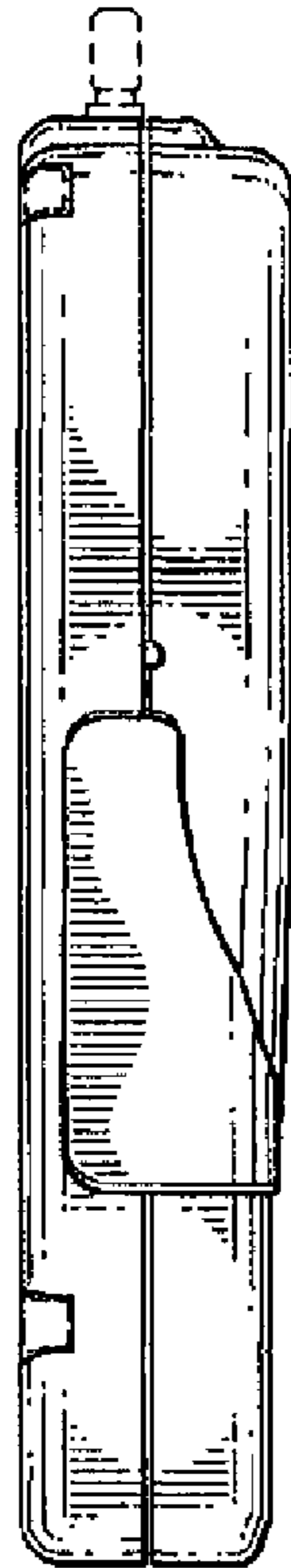


FIG.3

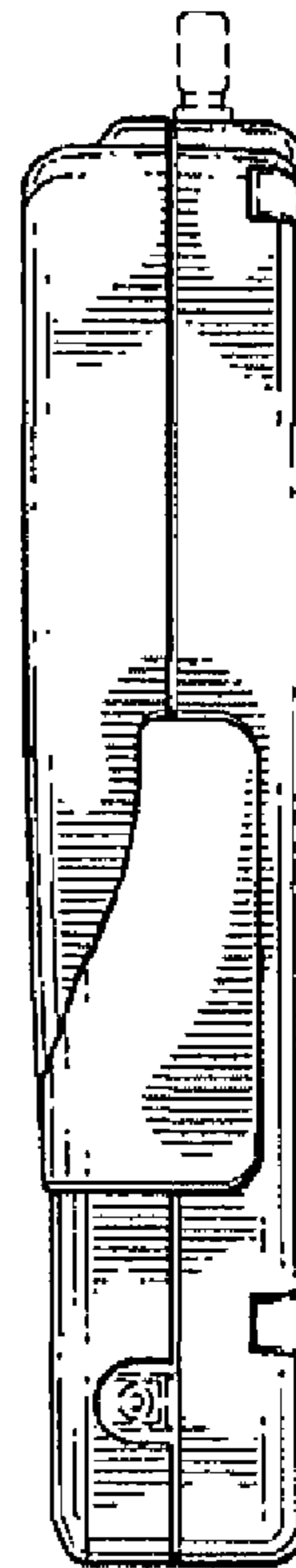


FIG.4



FIG. 5

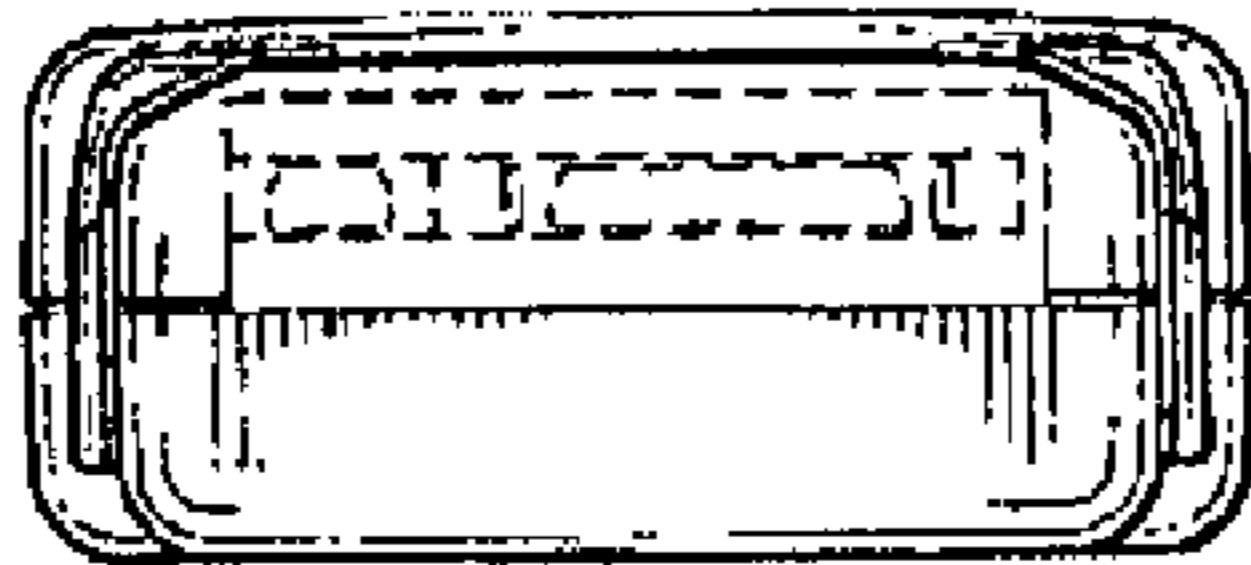


FIG. 6

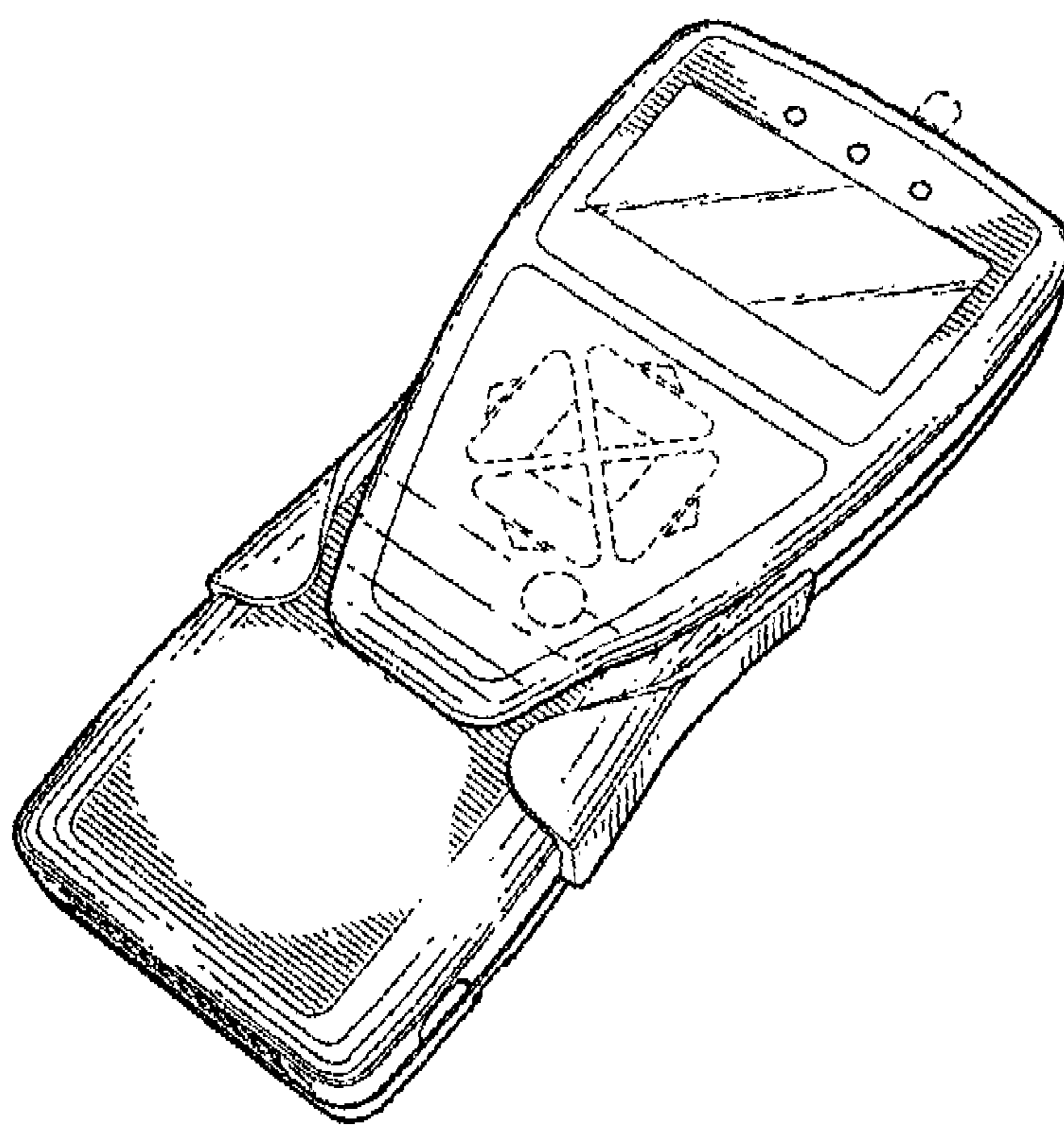


FIG.7