



US00D381280S

# United States Patent [19]

[11] Patent Number: **Des. 381,280**

**Tomiyaama et al.**

[45] Date of Patent: **\*\*Jul. 22, 1997**

## [54] DIGITAL MULTI-METER

## DESCRIPTION

[75] Inventors: **Hideki Tomiyama; Seiji Onuma**, both of Ueda, Japan

FIG. 1 is a front view of a digital multi-meter showing our new design;

[73] Assignee: **Hioki Denki Kabushiki Kaisha**, Ueda, Japan

FIG. 2 is a right side view thereof;

[\*\*] Term: **14 Years**

FIG. 3 is a rear view thereof;

[21] Appl. No.: **46,340**

FIG. 4 is a left side view thereof;

[22] Filed: **Nov. 13, 1995**

FIG. 5 is a top plan view thereof;

### [30] Foreign Application Priority Data

FIG. 6 is a bottom plan view thereof;

May 17, 1995 [JP] Japan ..... 7-13670

FIG. 7 is a magnified front view of the digital multi-meter, showing a state that the digital multi-meter is turned on;

[51] LOC (6) Cl. .... **10-04**

FIG. 8 shows a front view of the digital multi-meter, showing schematics when the digital multi-meter is used;

[52] U.S. Cl. .... **D10/78**

FIG. 9 shows a front view of the digital multi-meter, showing schematics when the digital multi-meter is used;

[58] Field of Search ..... D10/78; 324/72.5, 324/73 R, 715, 123 R, 110, 149, 151, 156; 330/294, 300

FIG. 10 shows a front view of the digital multi-meter, showing schematics when the digital multi-meter is used;

### [56] References Cited

#### U.S. PATENT DOCUMENTS

- D. 261,488 10/1981 Lindsay et al. .... D10/78
- D. 358,348 5/1995 Burgess ..... D10/78
- D. 361,949 9/1995 Kim ..... D10/78
- D. 365,031 12/1995 Kim ..... D10/78

FIG. 11 shows a front view of the digital multi-meter, showing schematics when the digital multi-meter is used;

FIG. 12 shows a front view of the digital multi-meter, showing schematics when the digital multi-meter is used;

FIG. 13 shows a front view of the digital multi-meter, showing schematics when the digital multi-meter is used;

FIG. 14 shows a front view of the digital multi-meter, showing schematics when the digital multi-meter is used;

FIG. 15 shows a front view of the digital multi-meter, showing schematics when the digital multi-meter is used; and,

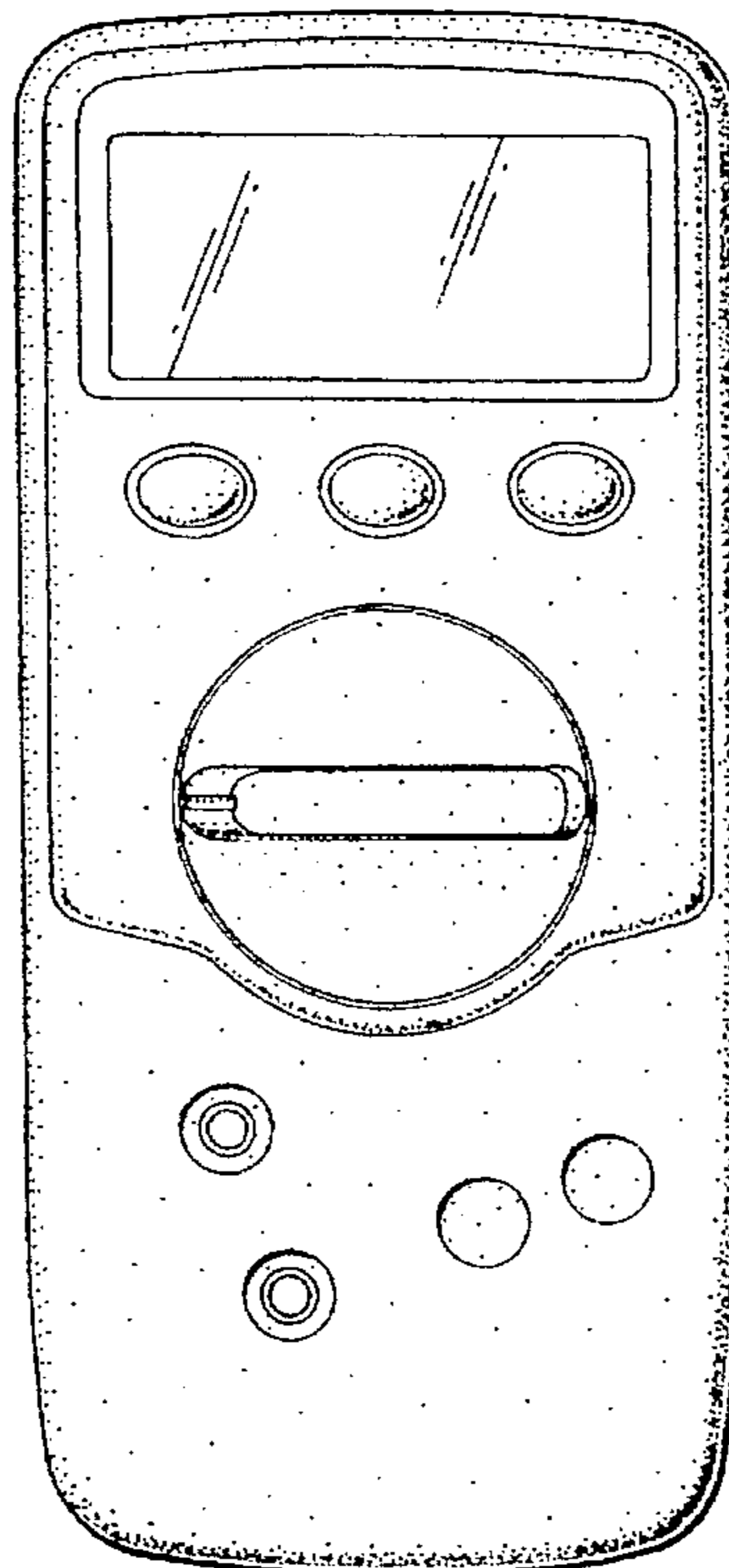
*Primary Examiner*—Antoine Duval Davis  
*Attorney, Agent, or Firm*—Kanesaka & Takeuchi

FIG. 16 is a perspective view of the digital multi-meter.

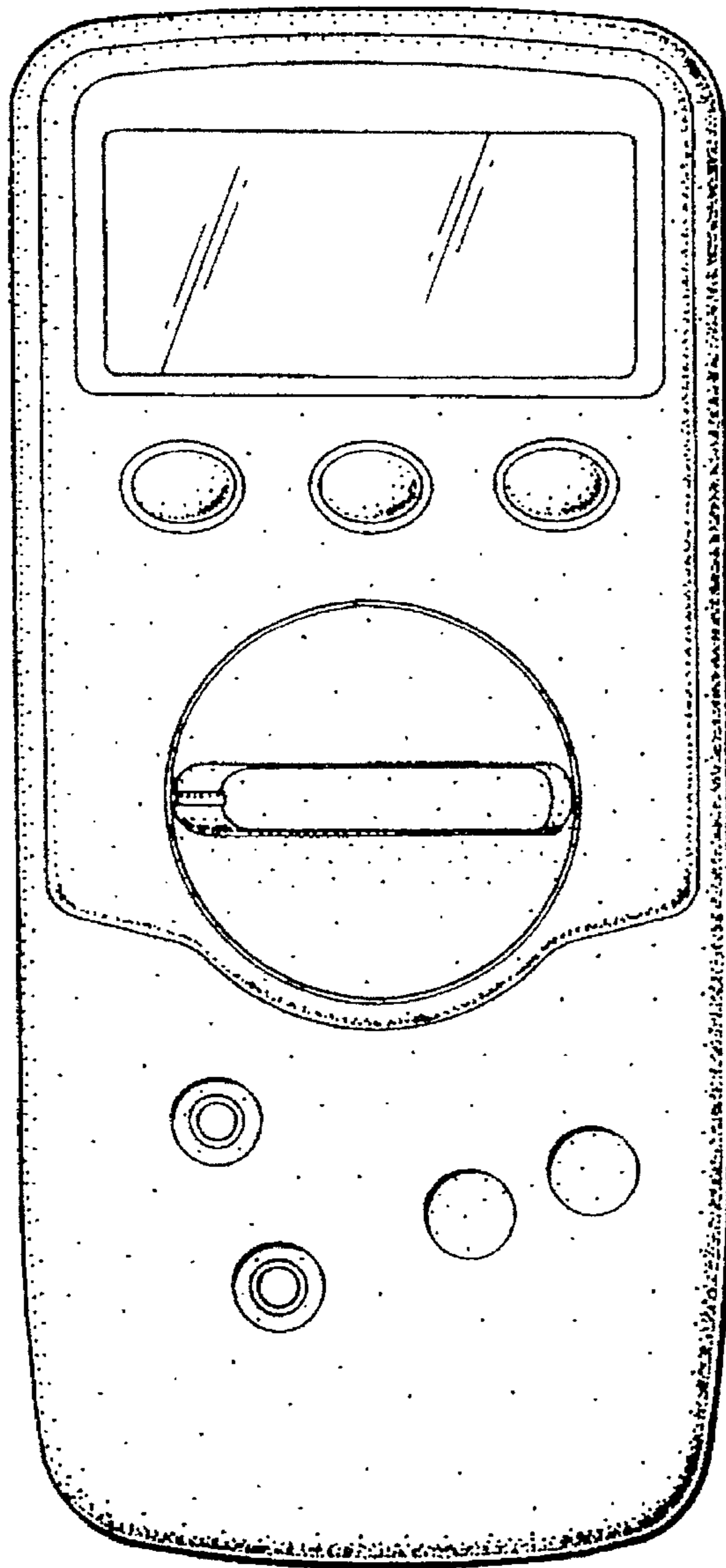
### [57] CLAIM

The ornamental design for a digital multi-meter, as shown and described.

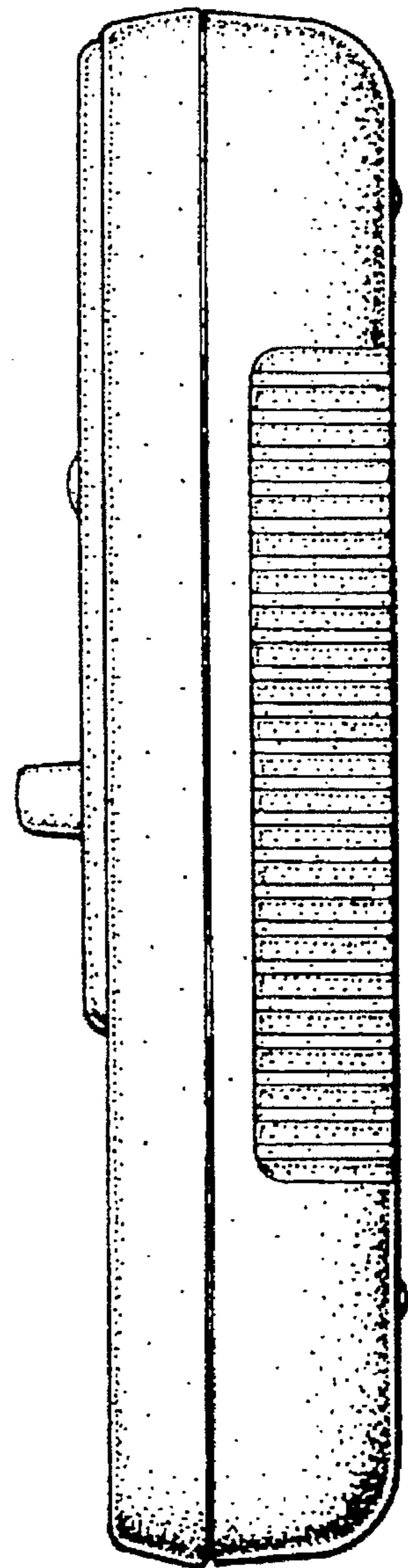
**1 Claim, 7 Drawing Sheets**



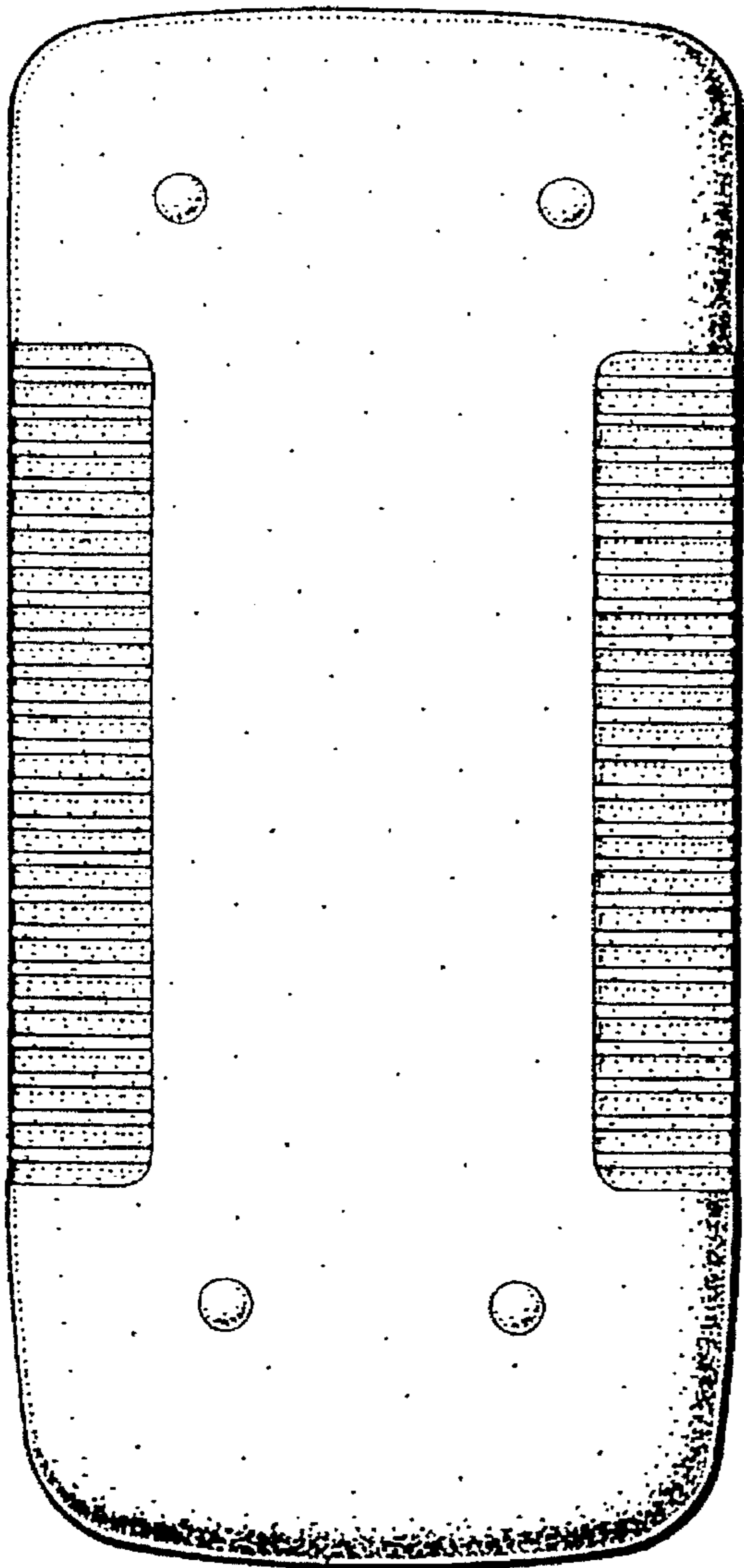
**Fig. 1**



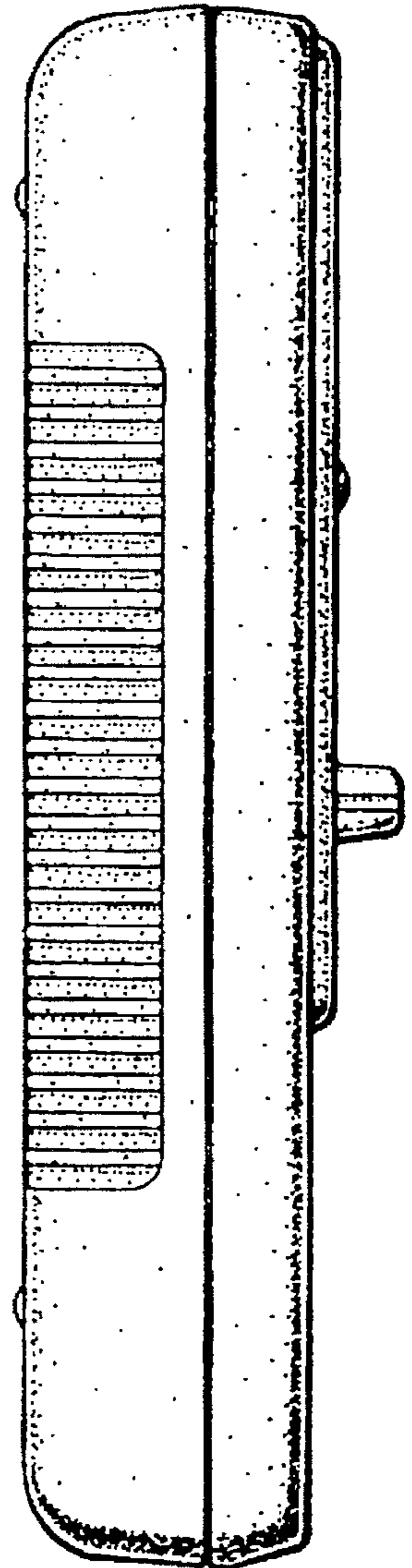
**Fig. 2**



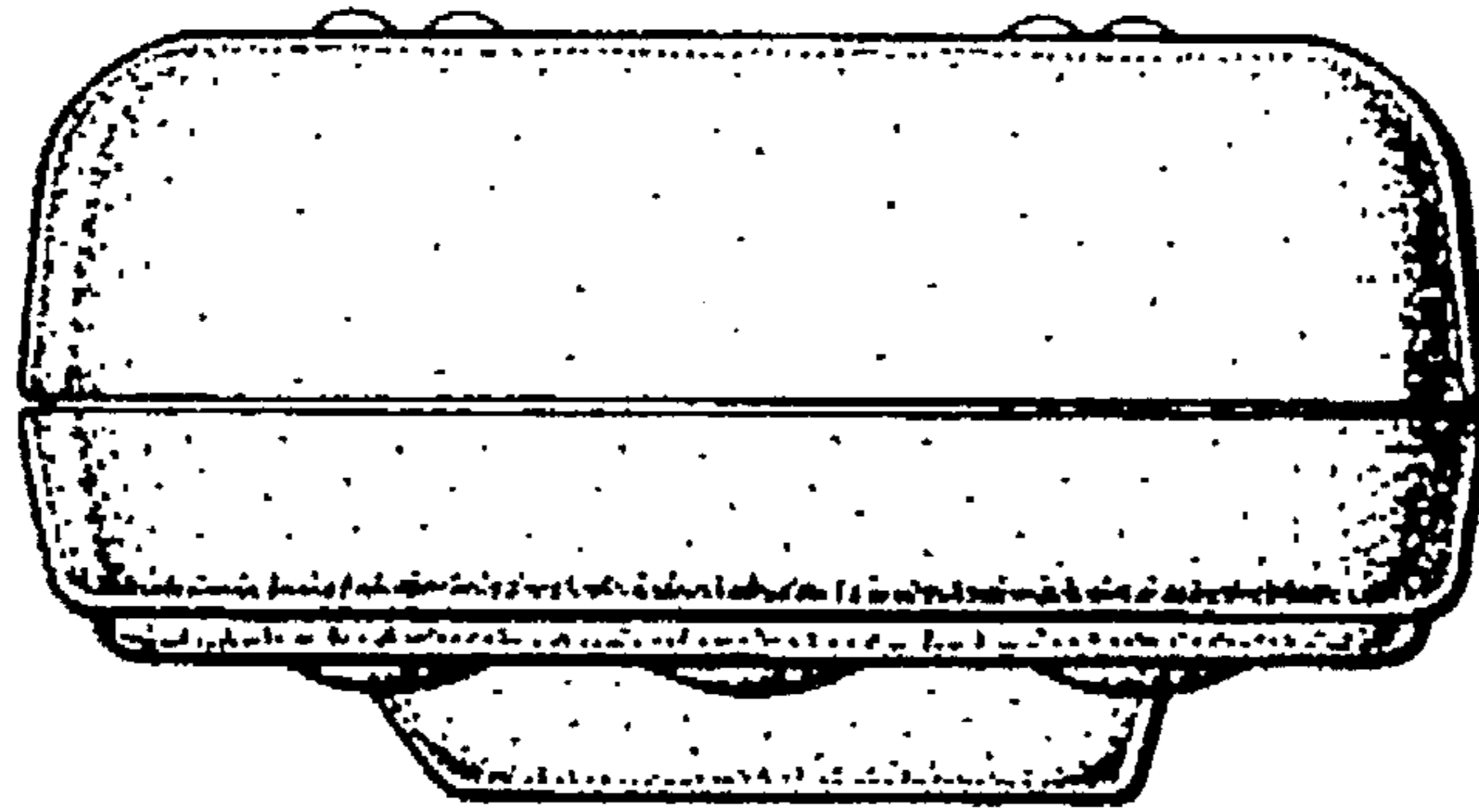
**Fig. 3**



**Fig. 4**



**Fig. 5**



**Fig. 6**

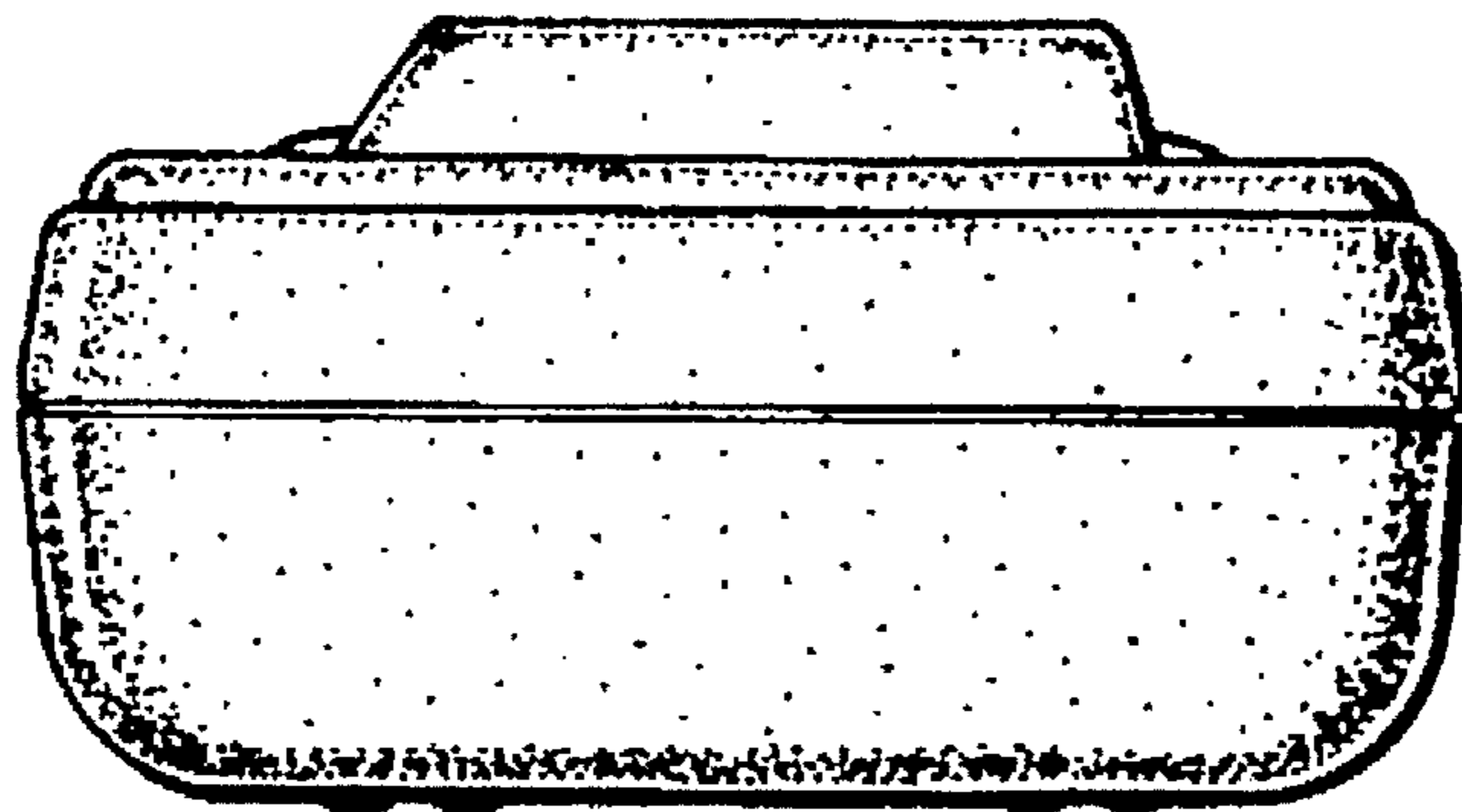


Fig. 7

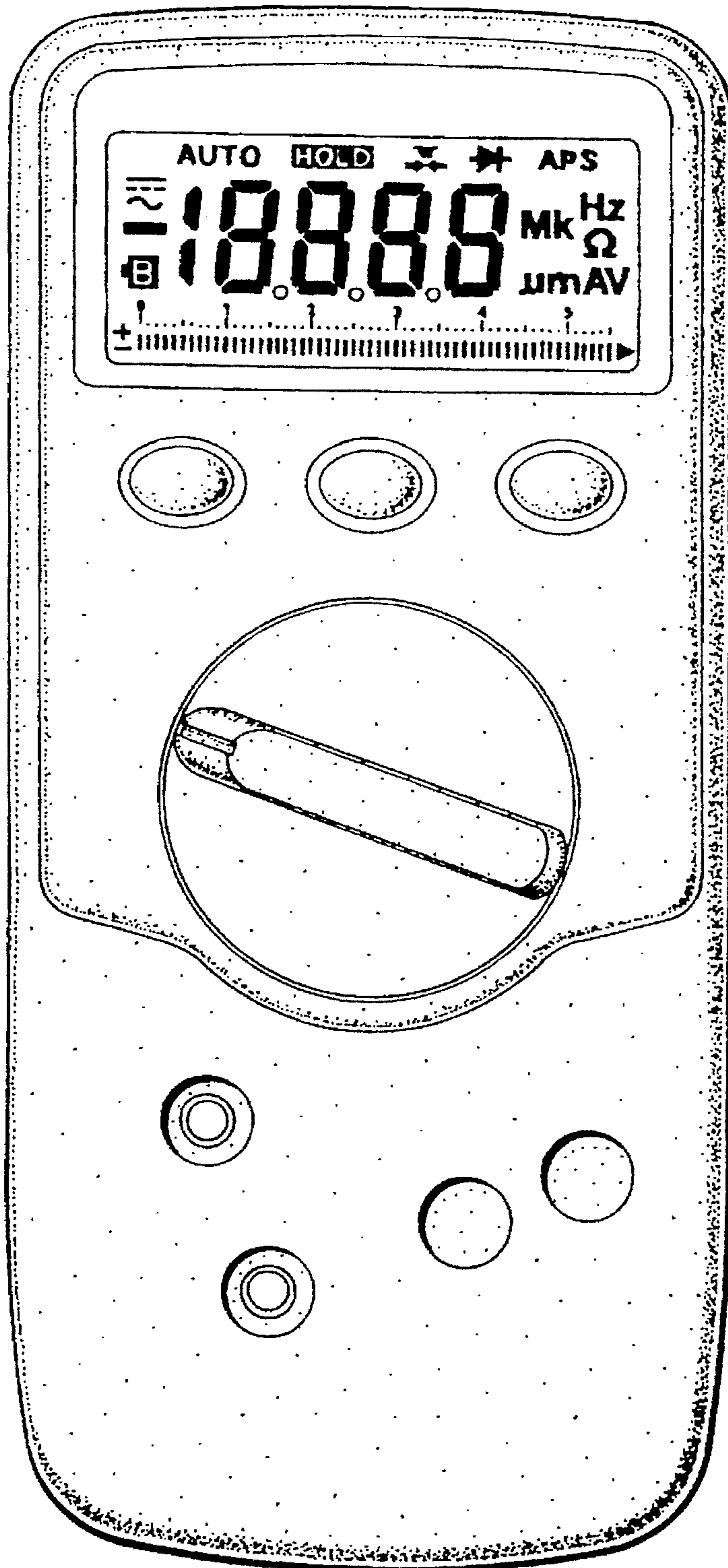


Fig. 8

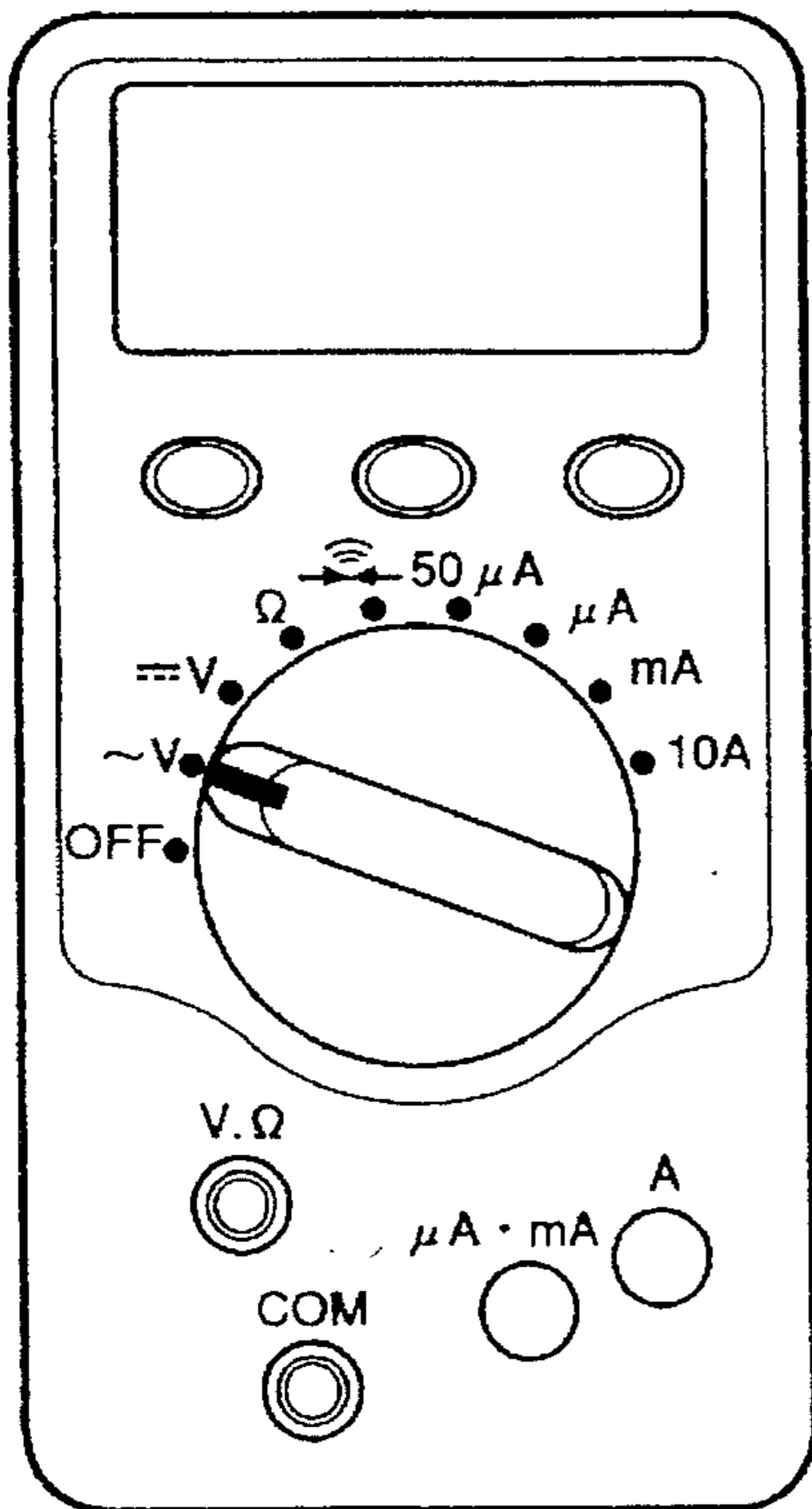


Fig. 9

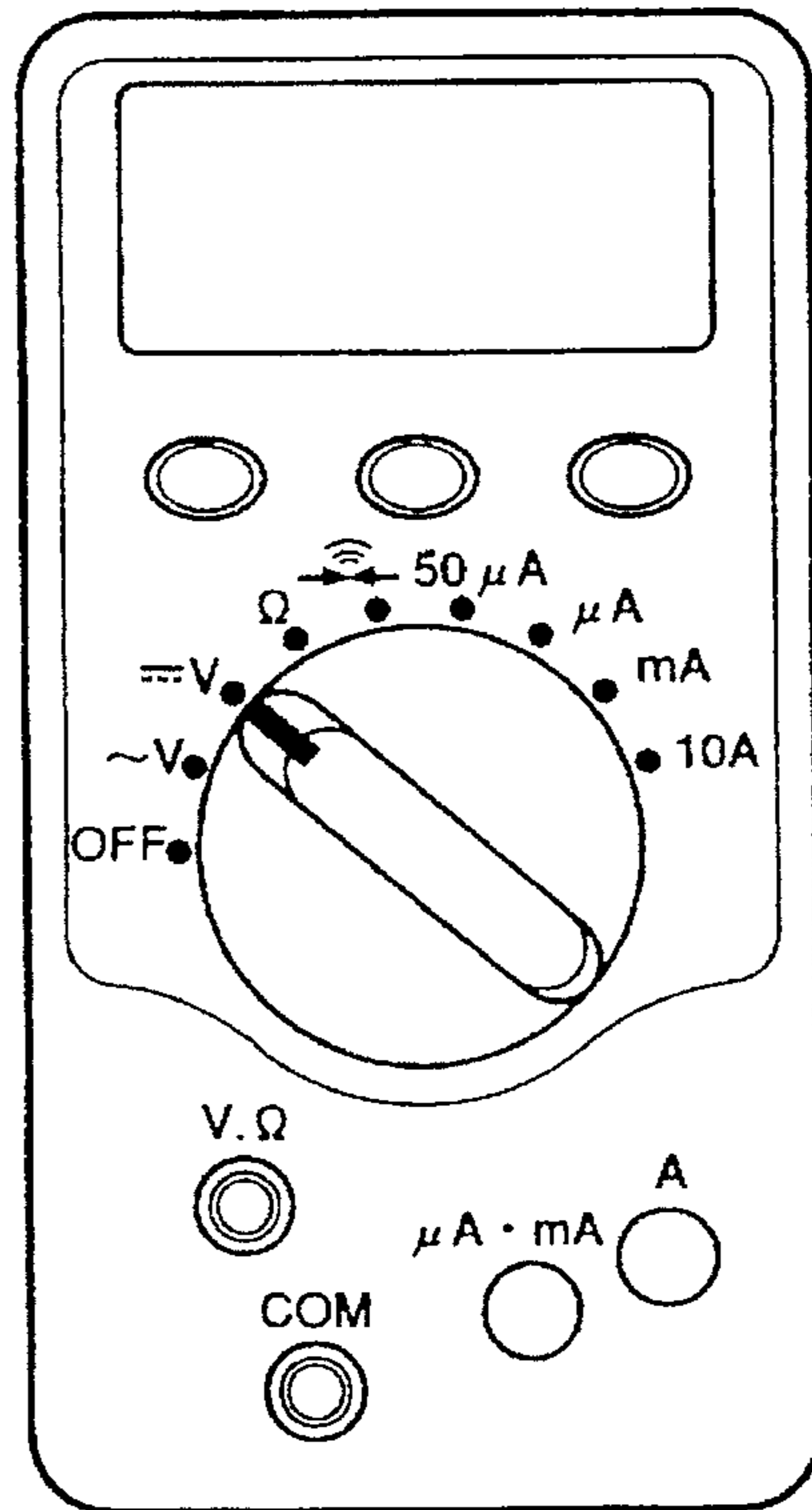


Fig. 10

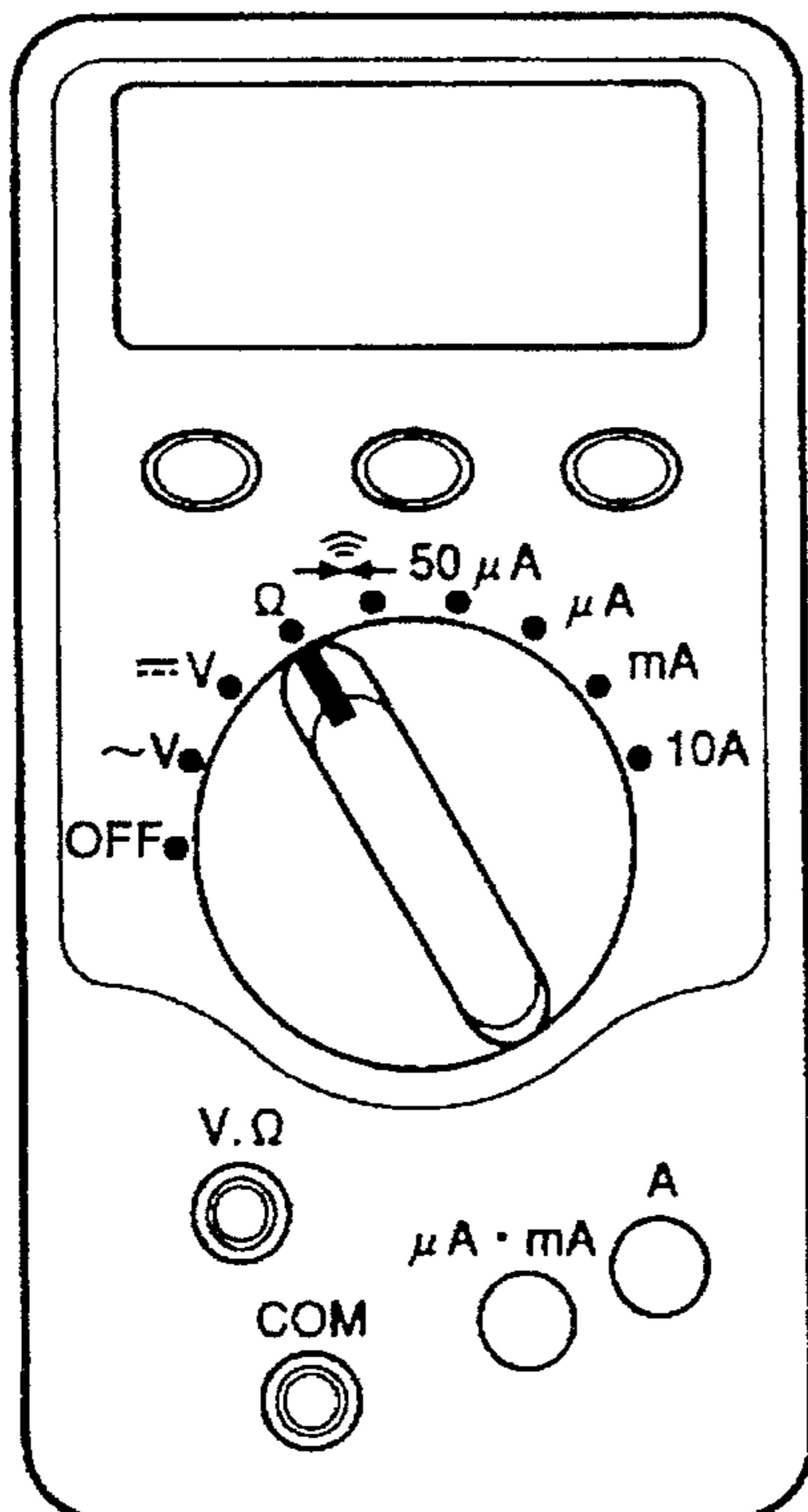


Fig. 11

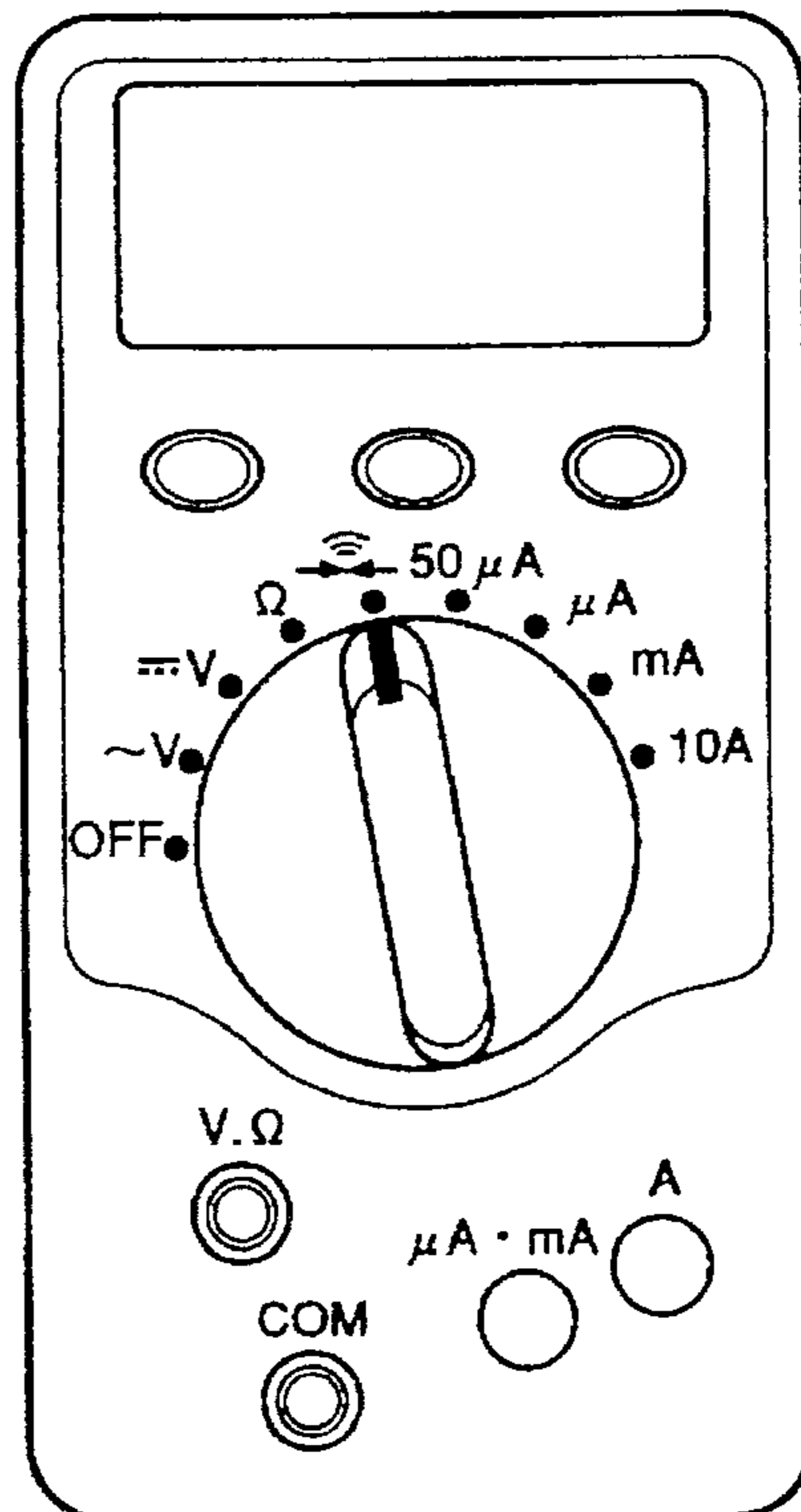


Fig. 12

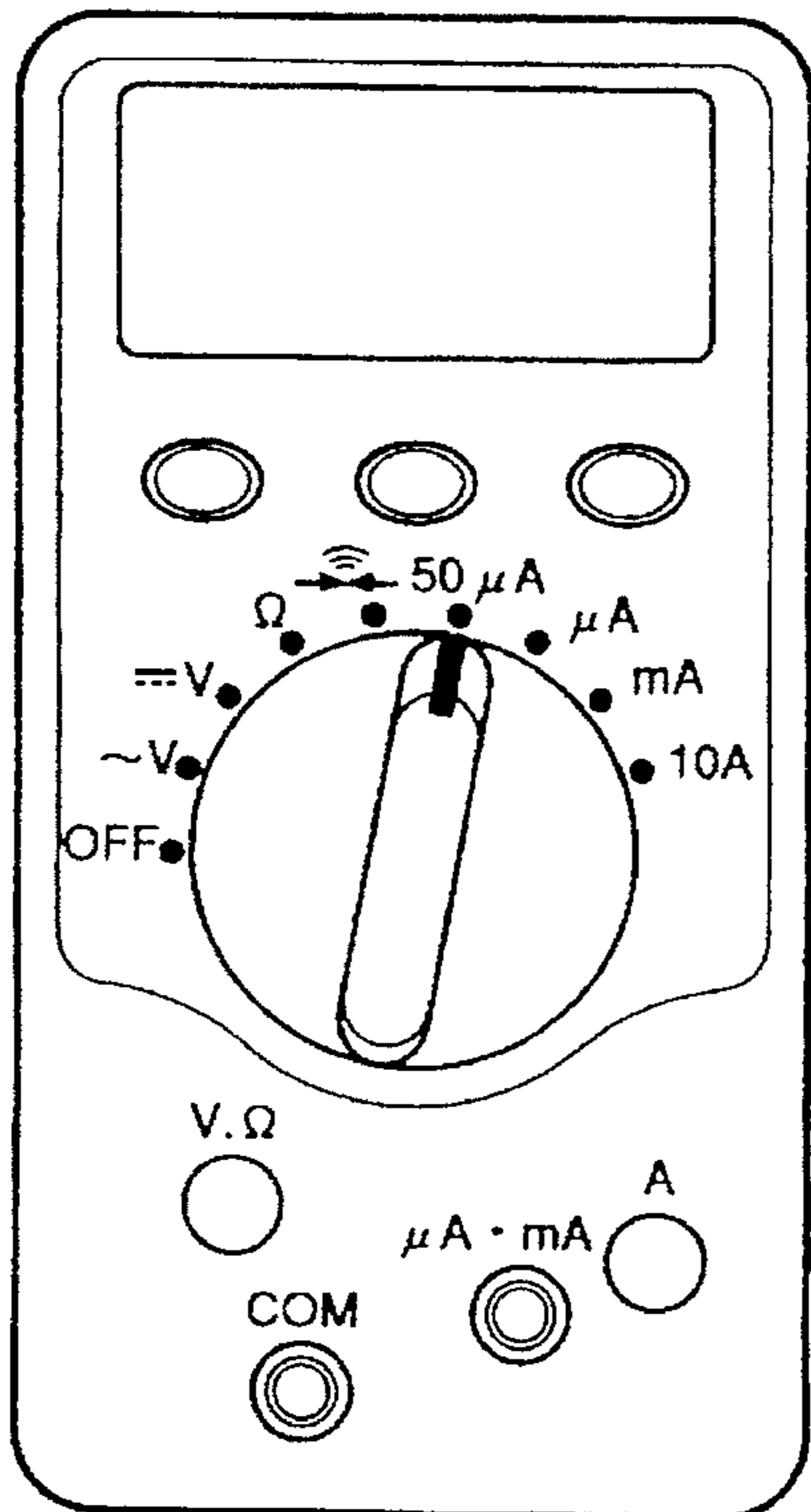


Fig. 13

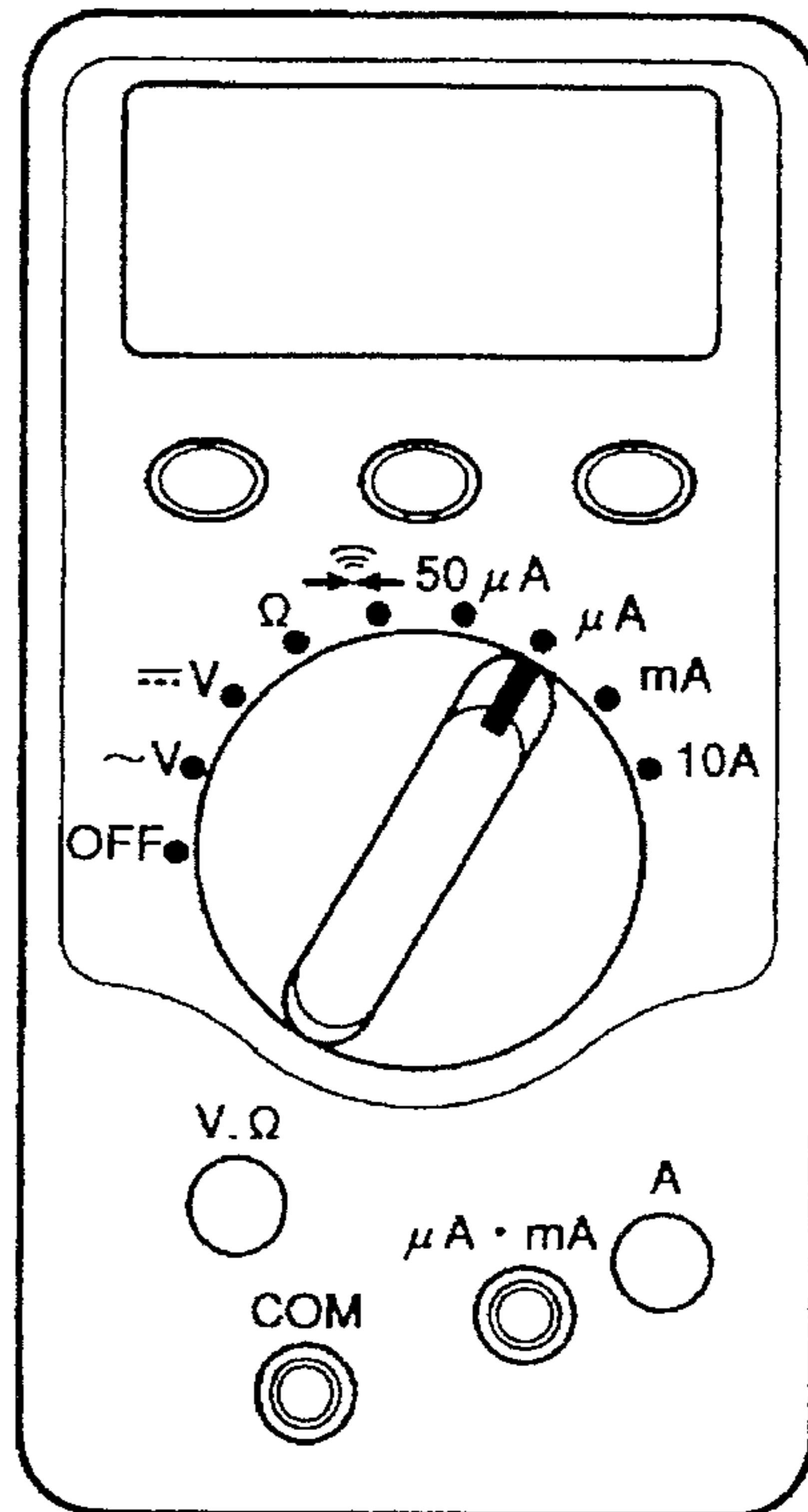


Fig. 14

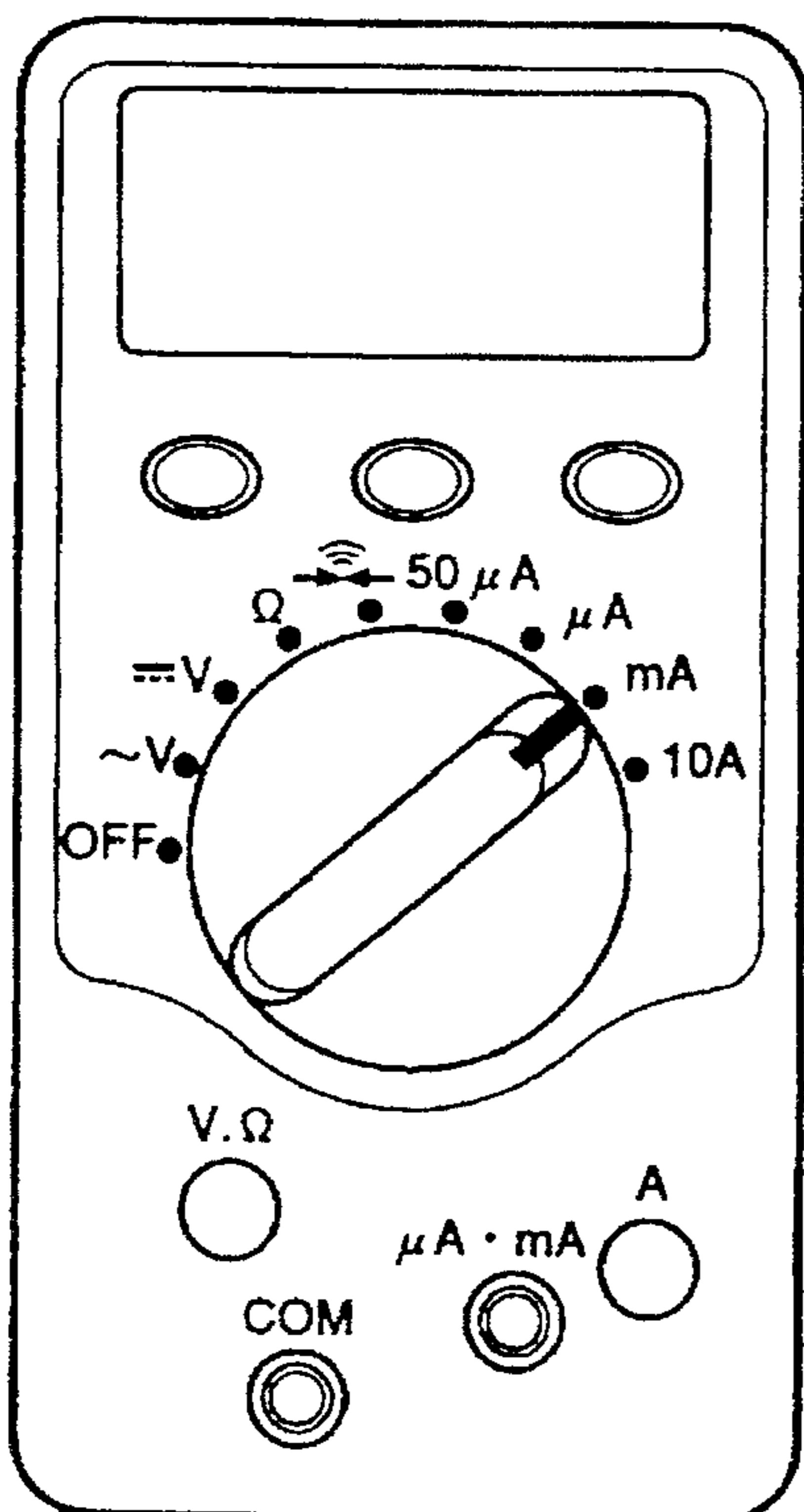
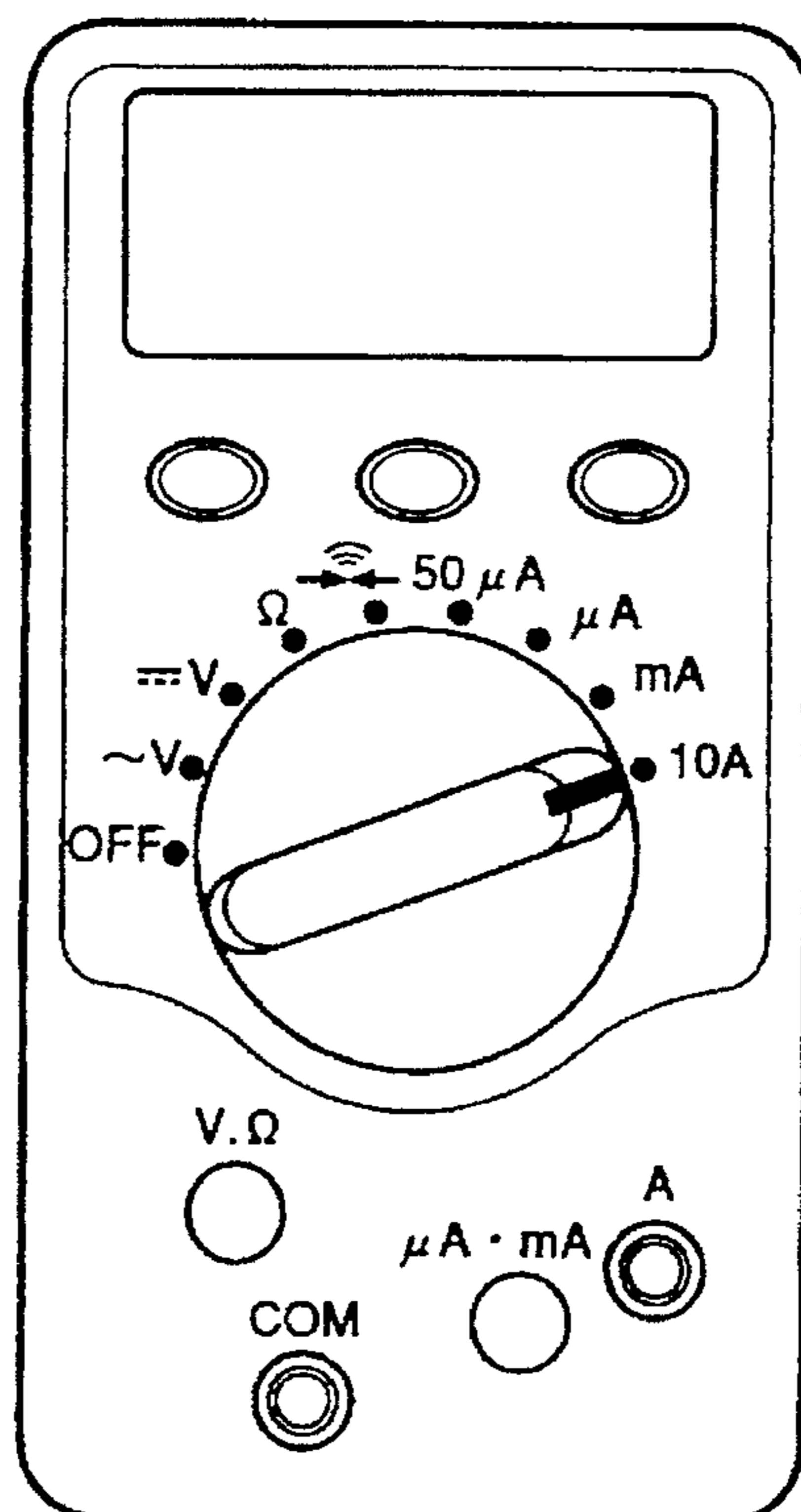


Fig. 15



**Fig. 16**

