



US00D449642B1

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

(10) **Patent No.:** **US D449,642 S**

(45) **Date of Patent:** **\*\* Oct. 23, 2001**

(54) **INK CARTRIDGE**

5,025,271 \* 6/1991 Baker et al. .... 347/87  
5,619,237 \* 4/1997 Inoue et al. .... 347/86

(75) Inventors: **Manabu Yamada**, Matsumoto;  
**Chiyoshige Nakazawa**, Suwa, both of  
(JP)

\* cited by examiner

*Primary Examiner*—Cathy Anne MacCormac  
(74) *Attorney, Agent, or Firm*—Oliff & Berridge, PLC

(73) Assignee: **Seiko Epson Corporation**, Tokyo (JP)

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

(57) **CLAIM**

The ornamental design for ink cartridge, as shown and described.

(21) Appl. No.: **29/128,005**

**DESCRIPTION**

(22) Filed: **Aug. 17, 2000**

(30) **Foreign Application Priority Data**

Feb. 17, 2000 (JP) ..... 12-002848

(51) **LOC (7) Cl.** ..... **18-02**

(52) **U.S. Cl.** ..... **D18/56**

(58) **Field of Search** ..... D18/56; 346/86,  
346/87

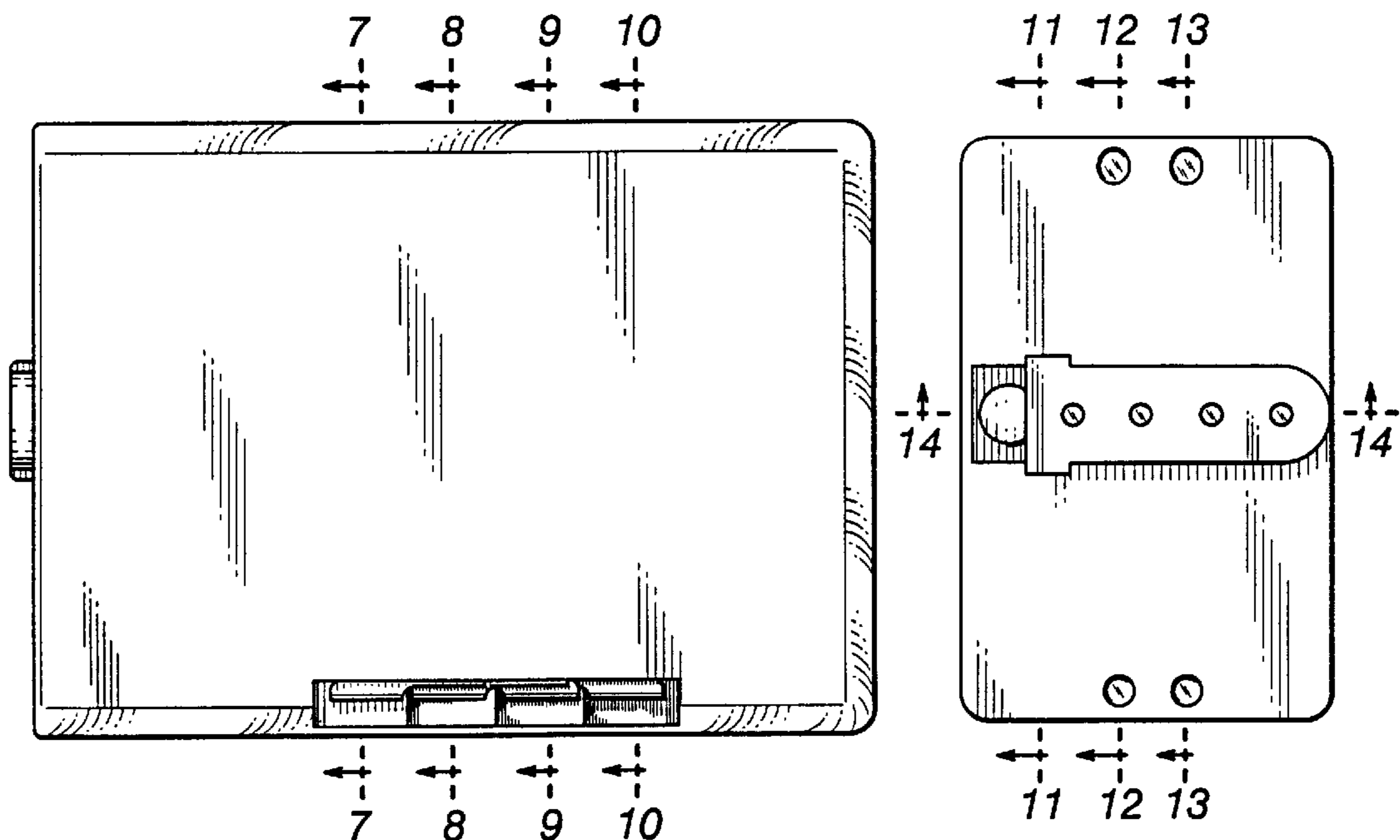
FIG. 1 is a front view of the ink cartridge;  
FIG. 2 is a rear view thereof;  
FIG. 3 is a top view thereof;  
FIG. 4 is a bottom view thereof;  
FIG. 5 is a right side view thereof;  
FIG. 6 is a left side view thereof;  
FIG. 7 is a cross-sectional view thereof taken along the line 7—7 of FIG. 2;  
FIG. 8 is a cross-sectional view thereof taken along the line 8—8 of FIG. 2;  
FIG. 9 is a cross-sectional view thereof taken along the line 9—9 of FIG. 2;  
FIG. 10 is a cross-sectional view thereof taken along the line 10—10 of FIG. 2;  
FIG. 11 is a cross-sectional view thereof taken along the line 11—11 of FIG. 5;  
FIG. 12 is a cross-sectional view thereof taken along the line 12—12 of FIG. 5;  
FIG. 13 is a cross-sectional view thereof taken along the line 13—13 of FIG. 5; and,  
FIG. 14 is a cross-sectional view thereof taken along the line 14—14 of FIG. 5.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- D. 365,596 \* 12/1995 Miyazawa et al. .... D18/56
- D. 378,760 \* 4/1997 Shinada et al. .... D18/56
- D. 390,261 \* 2/1998 Miyazawa et al. .... D18/56
- D. 397,143 \* 8/1998 Kobayashi et al. .... D18/56
- D. 400,575 \* 11/1998 Kobayashi et al. .... D18/56
- D. 401,620 \* 11/1998 Nozawa et al. .... D18/56
- D. 401,621 \* 11/1998 Shimizu et al. .... D18/56
- D. 418,159 12/1999 Nakazawa et al. .
- D. 419,592 1/2000 Nakazawa et al. .
- D. 425,112 \* 5/2000 Shinada et al. .... D18/56
- D. 425,285 \* 5/2000 Shinada et al. .... 347/86
- D. 431,833 \* 10/2000 Umemura ..... D18/56
- D. 438,896 \* 3/2001 Shinada et al. .... D18/56
- D. 439,609 \* 3/2001 Shinada et al. .... D18/56

**1 Claim, 6 Drawing Sheets**



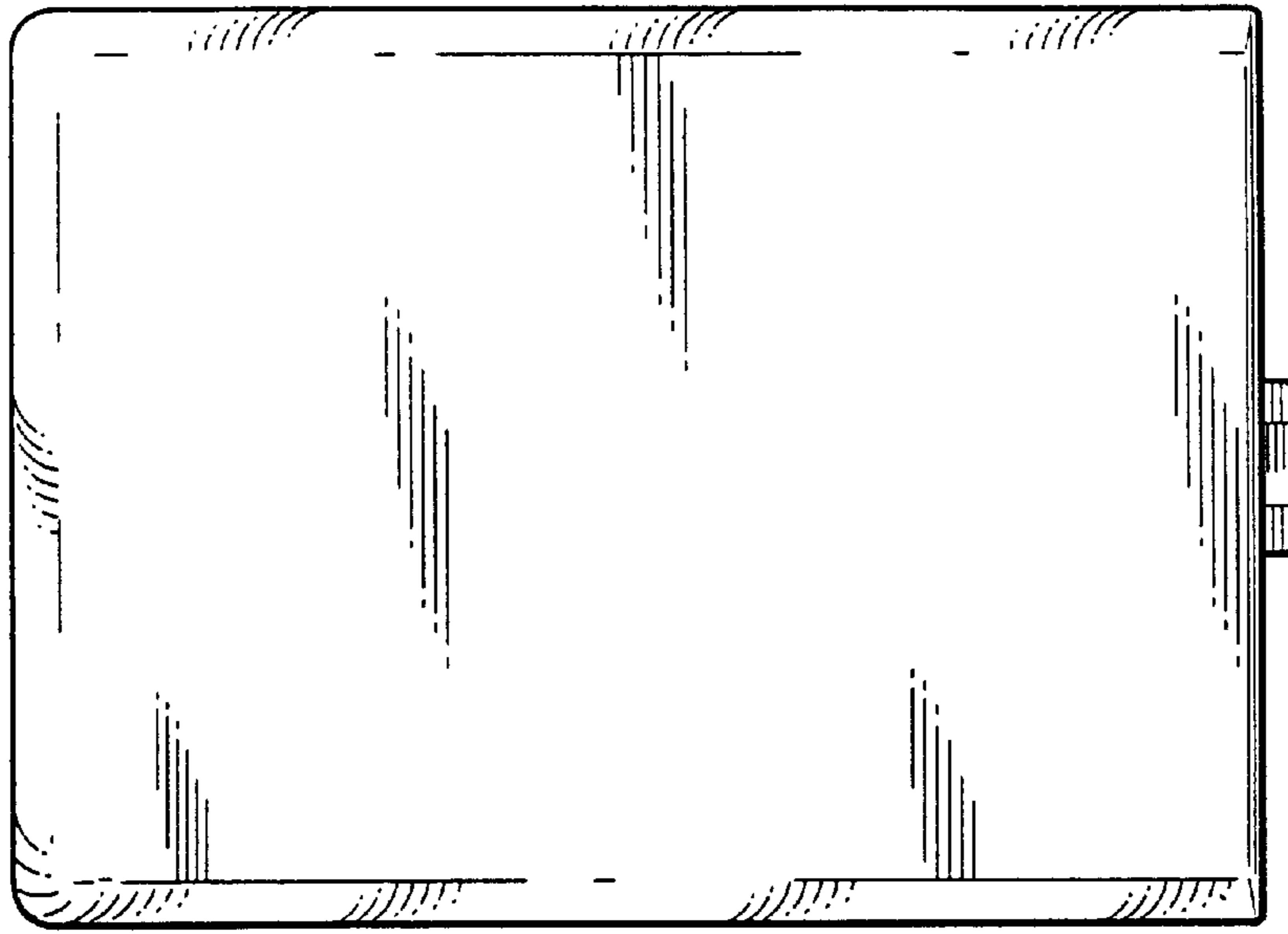


Fig. 1

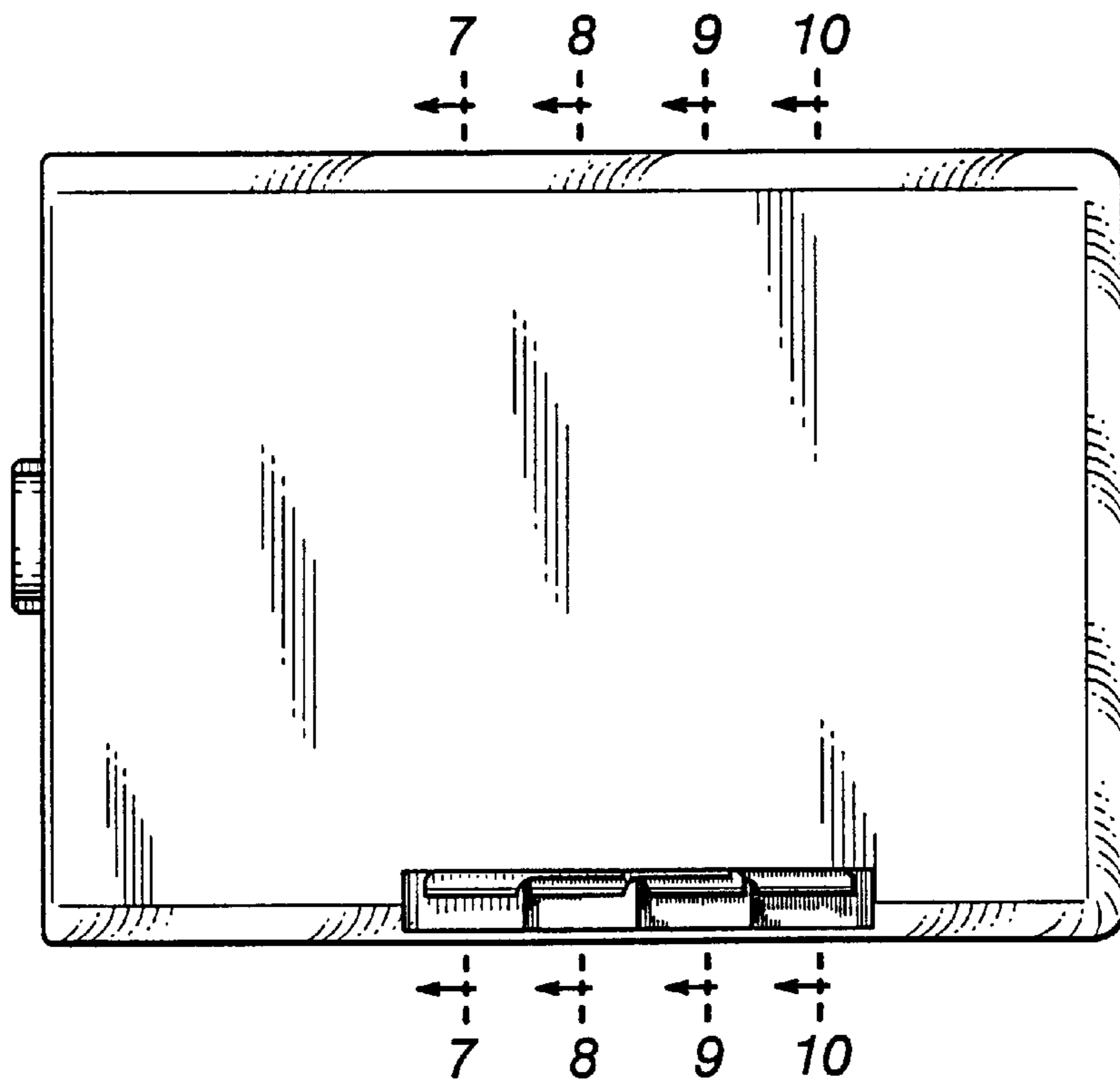
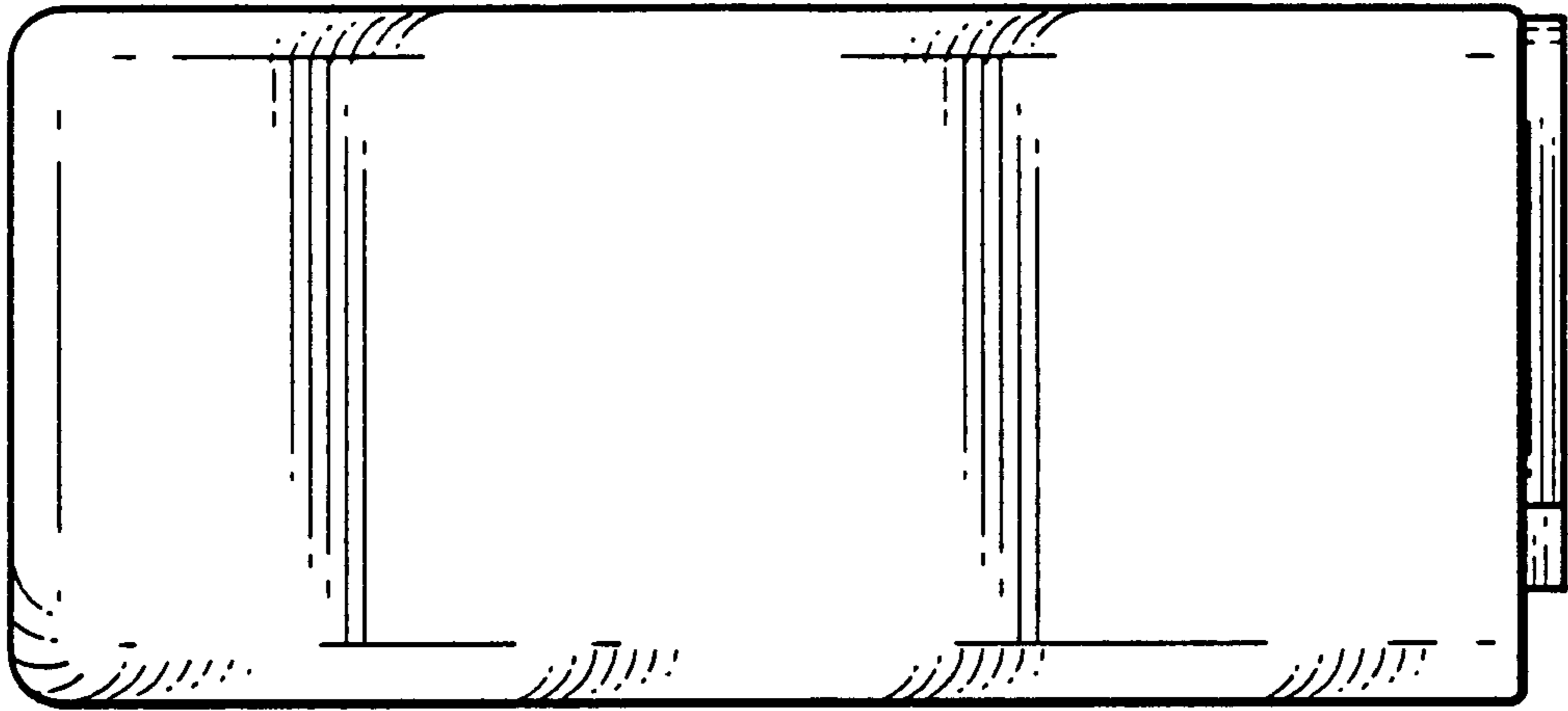
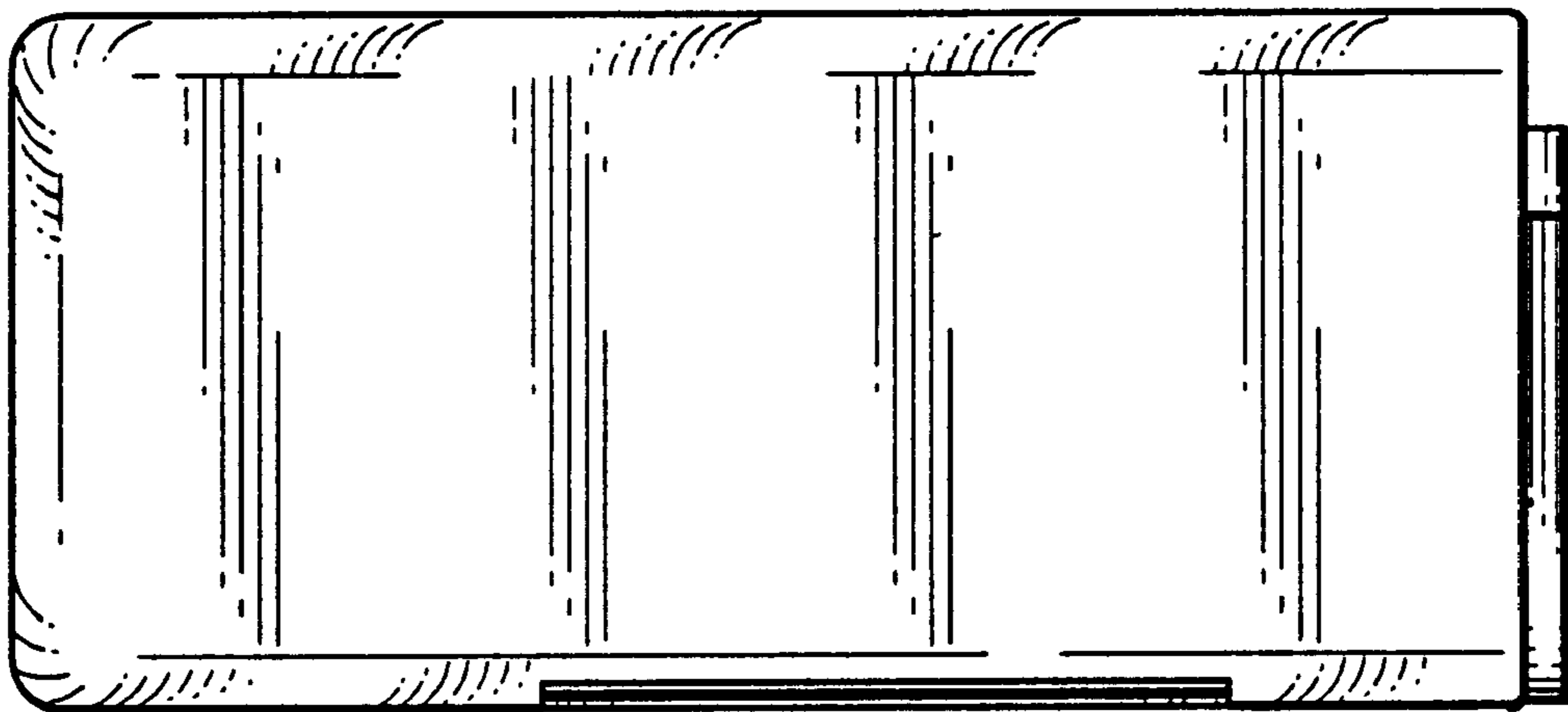


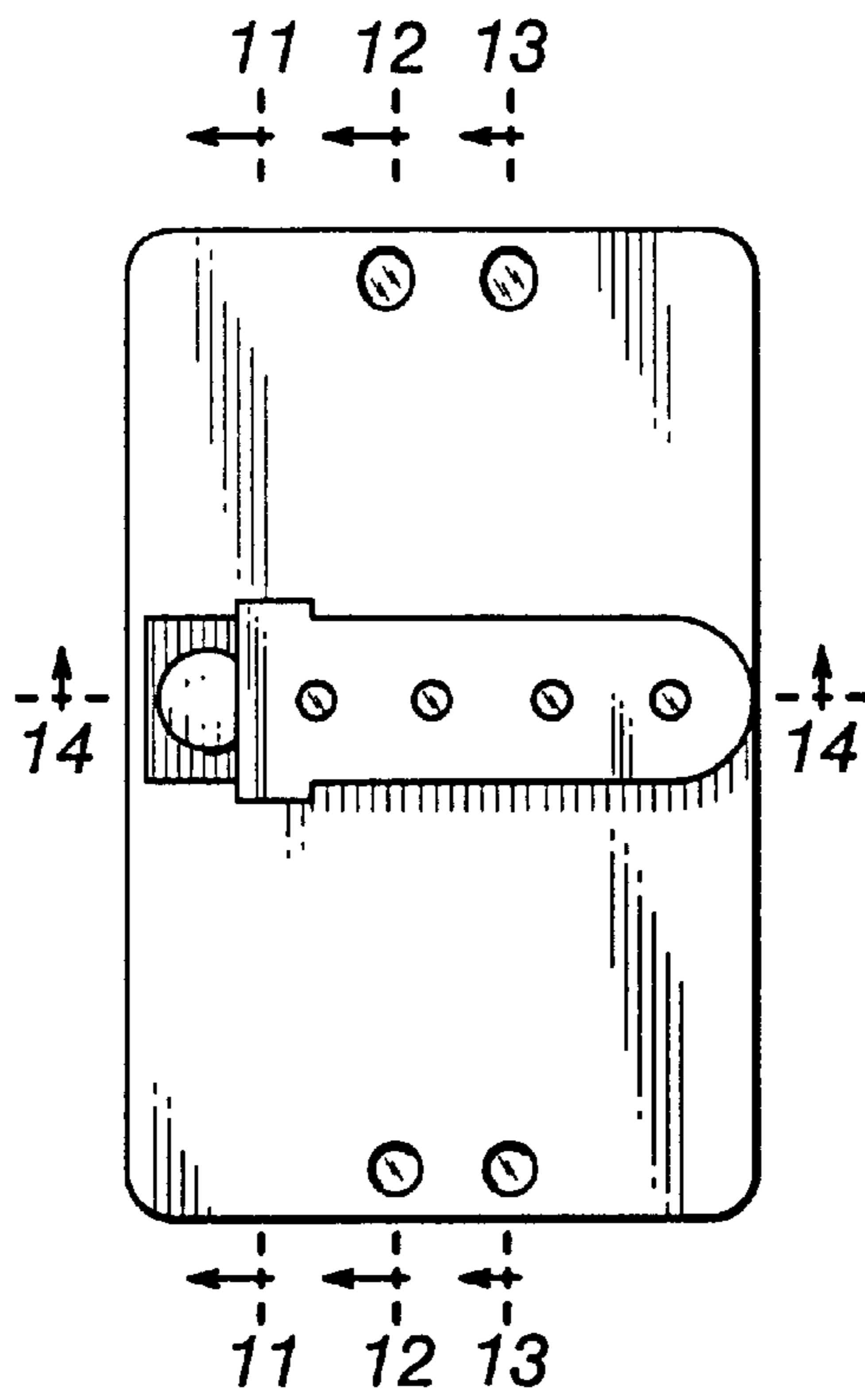
Fig. 2



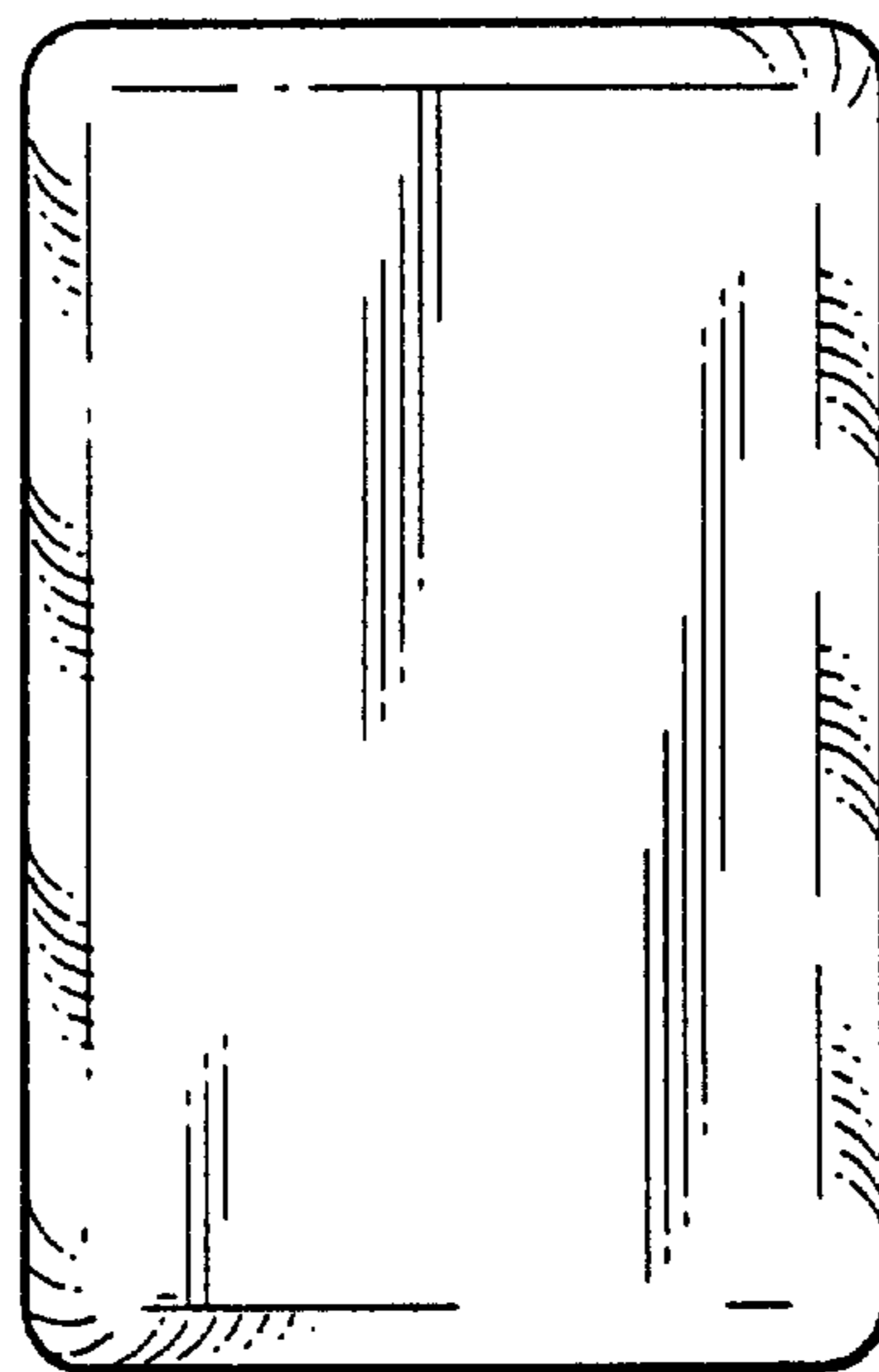
*Fig. 3*



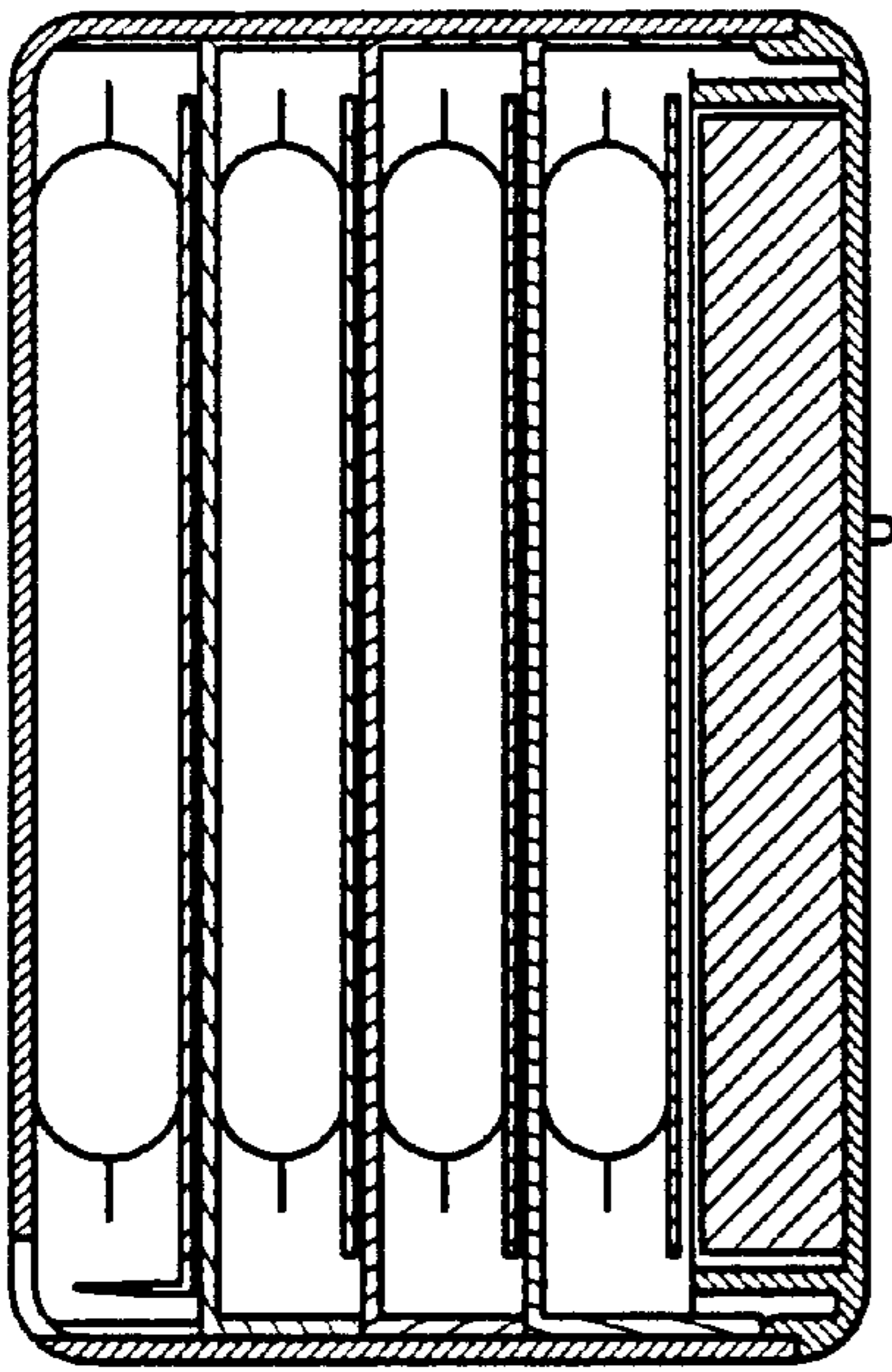
*Fig. 4*



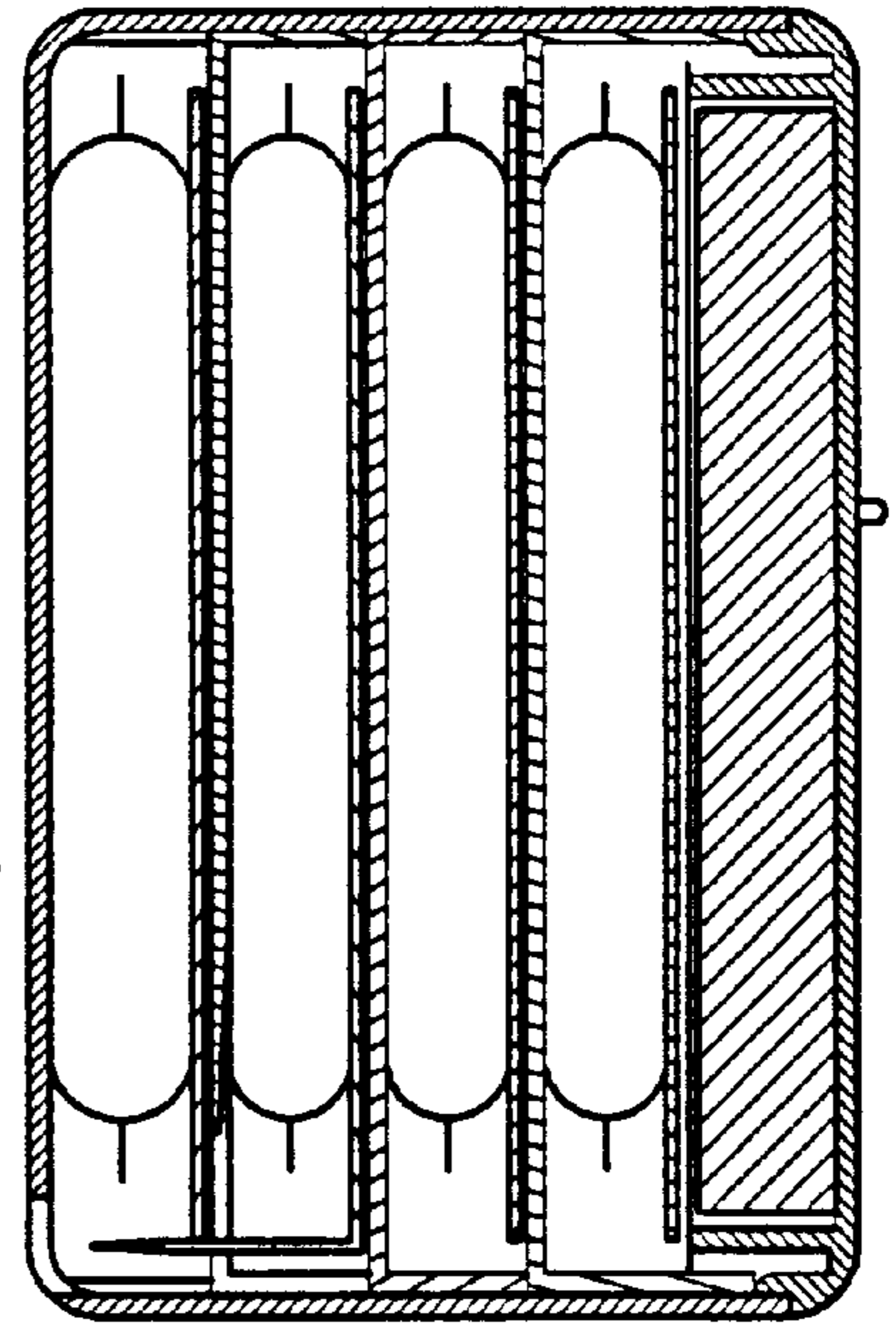
*Fig. 5*



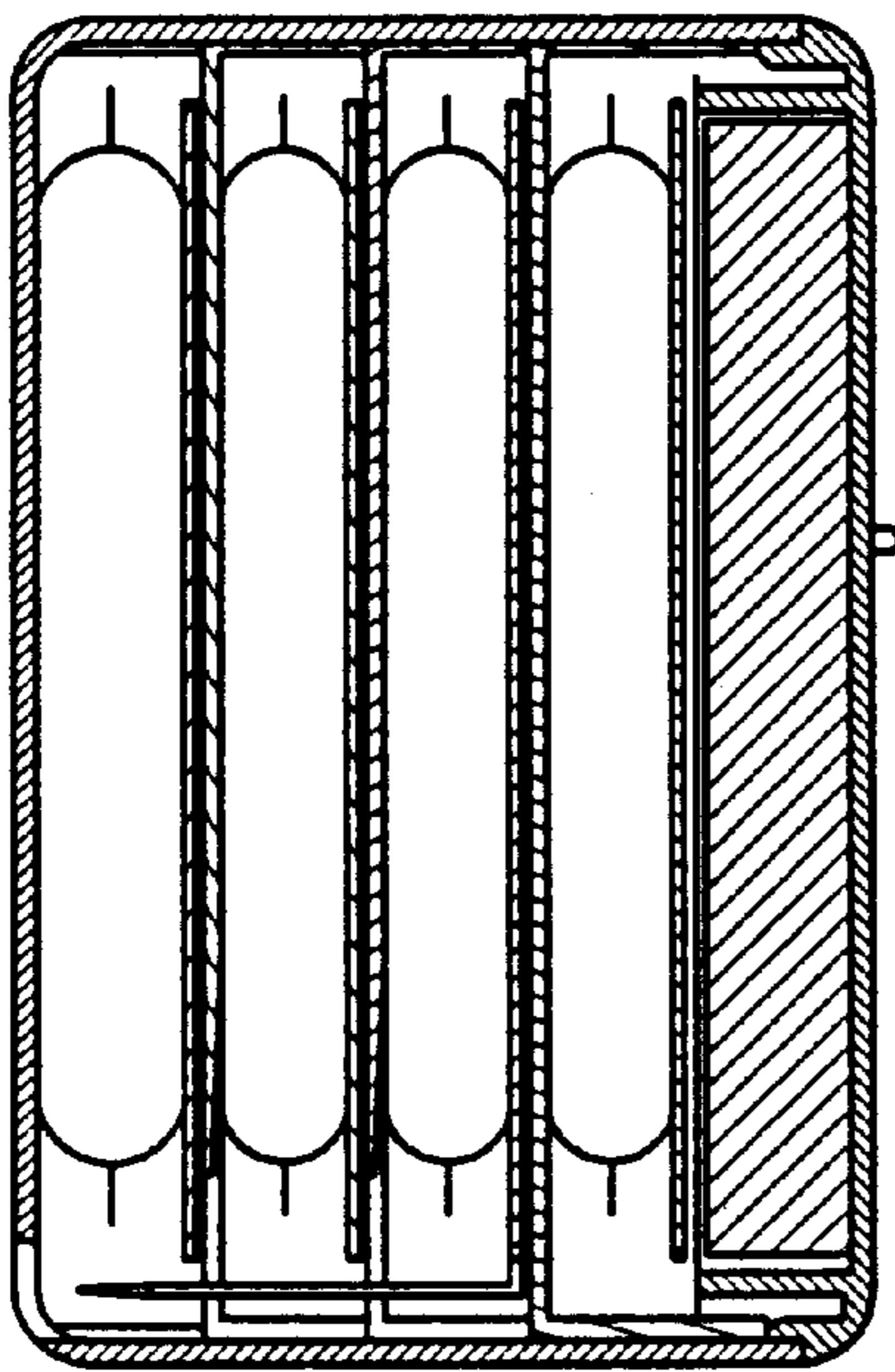
*Fig. 6*



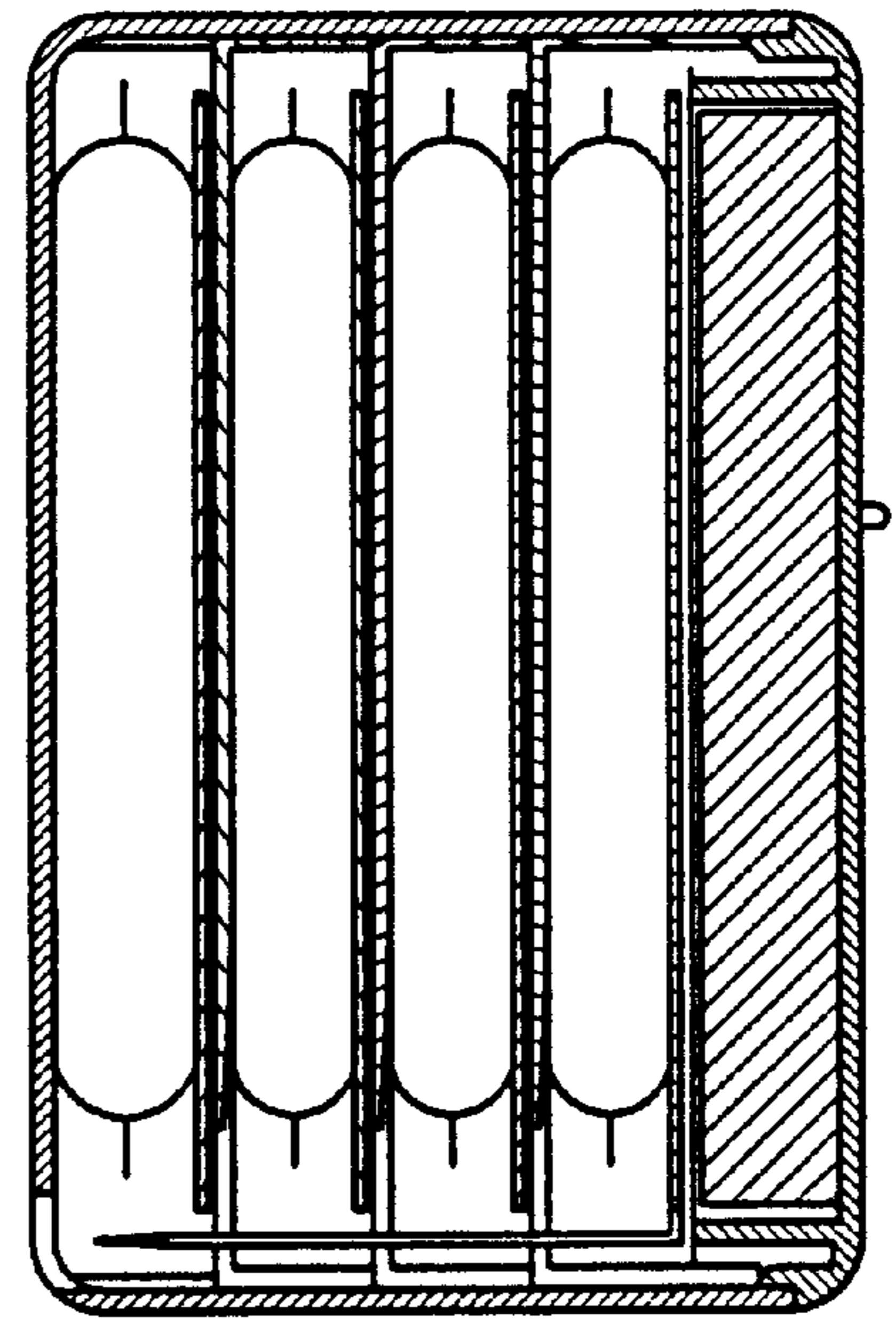
*Fig. 7*



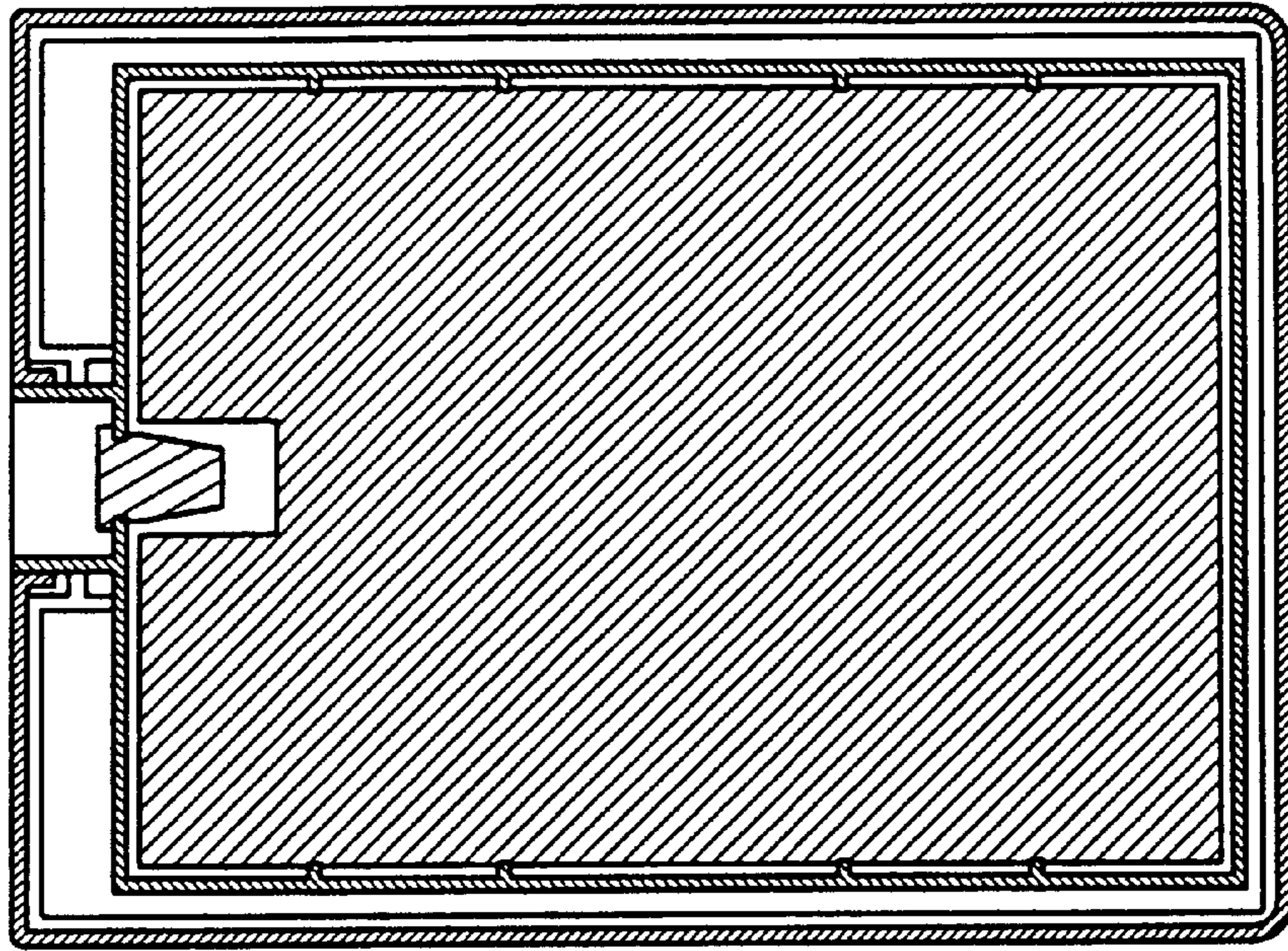
*Fig. 8*



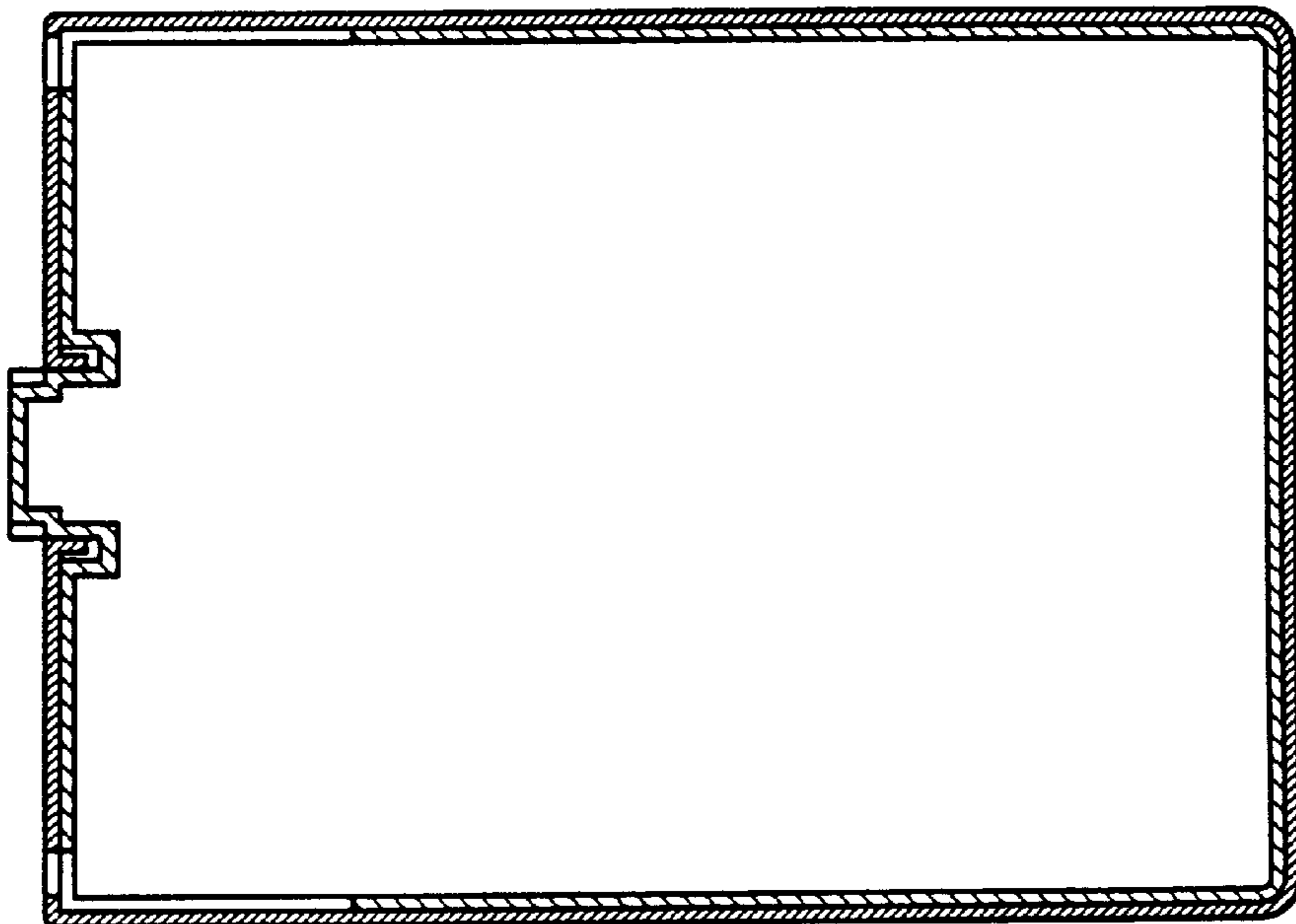
*Fig. 9*



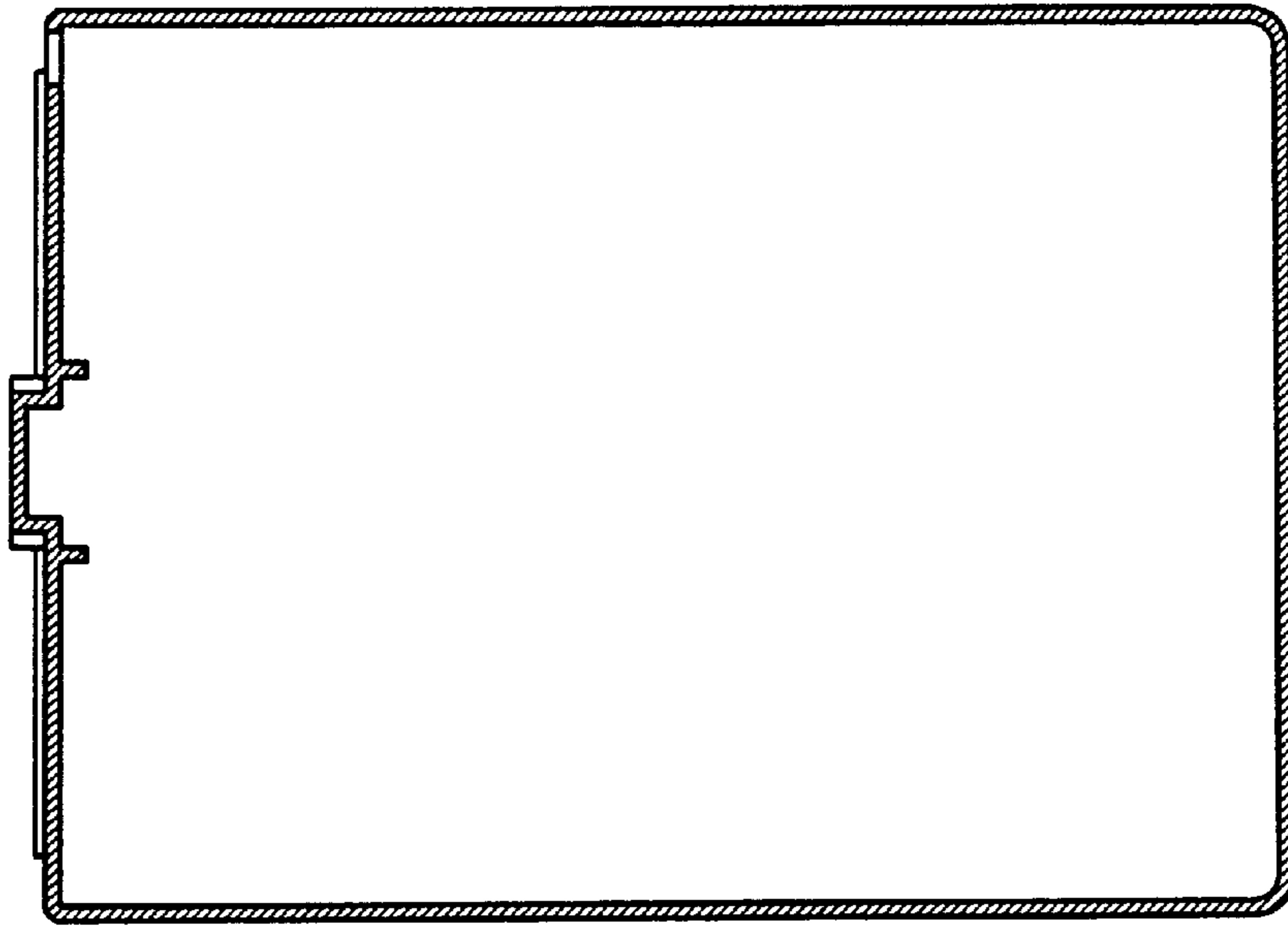
*Fig. 10*



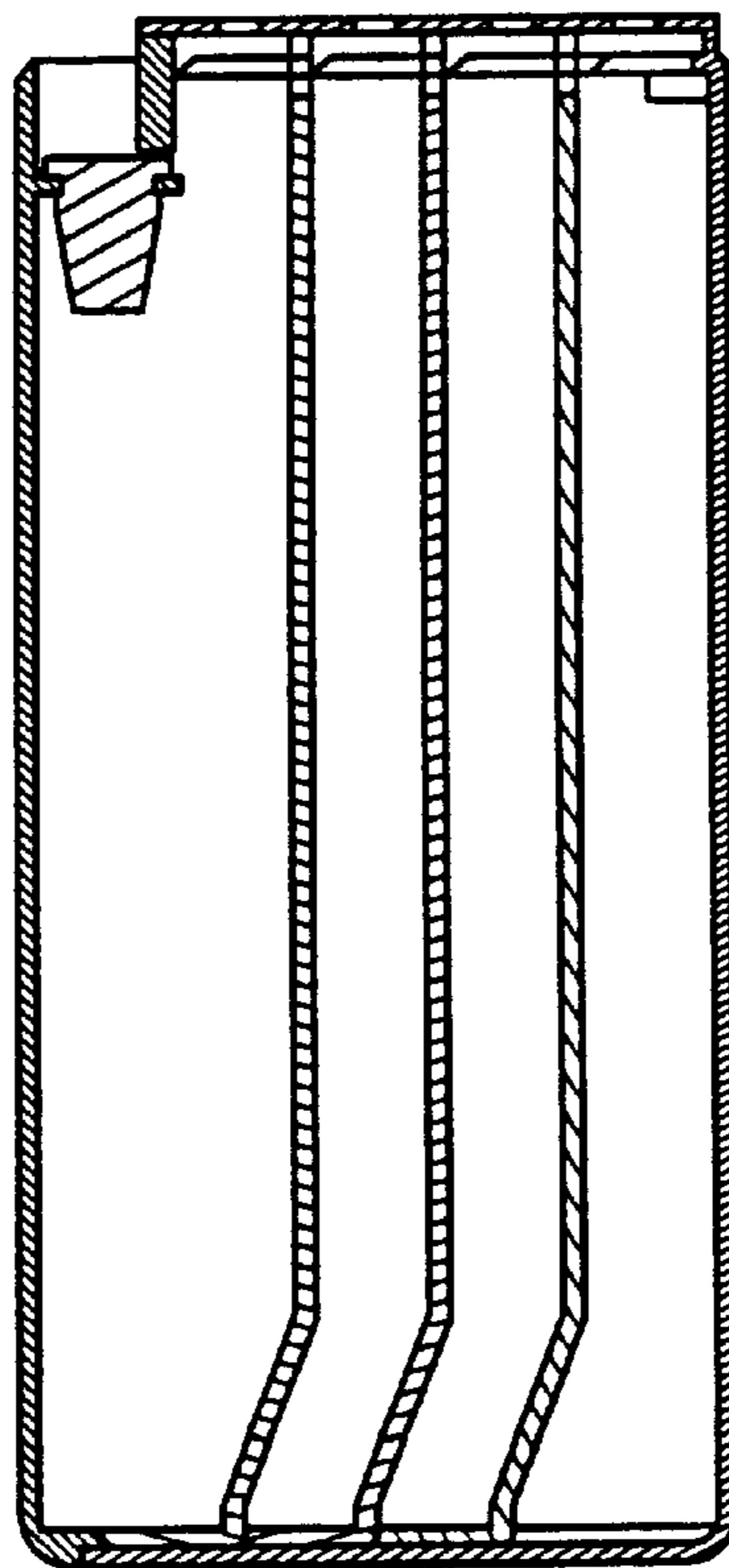
*Fig. 11*



*Fig. 12*



*Fig. 13*



*Fig. 14*