



US00D590686S

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

(10) **Patent No.:** **US D590,686 S**
(45) **Date of Patent:** **** Apr. 21, 2009**

(54) **ELECTRIC GRIPPER**

(75) Inventors: **Yoshihiro Fukano**, Tsukubamirai (JP);
Shoichi Makado, Tsukubamirai (JP)

(73) Assignee: **SMC Corporation**, Chiyoda-ku, Tokyo
(JP)

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

(21) Appl. No.: **29/301,692**

(22) Filed: **Mar. 13, 2008**

(30) **Foreign Application Priority Data**

Sep. 14, 2007 (JP) 2007-025022

(51) **LOC (9) Cl.** **08-05**

(52) **U.S. Cl.** **D8/72**

(58) **Field of Classification Search** D8/71-74,
D8/394, 61; 248/689, 124.2; 81/487, 427,
81/9.3; 269/43, 218, 32-34; D15/140; 294/119.1
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,607,873 A * 8/1986 Nusbaumer et al. 294/119.1
D438,441 S * 3/2001 Nagai et al. D8/72
6,309,003 B1 * 10/2001 Bertini 294/119.1
6,505,871 B2 * 1/2003 McCormick 294/119.1
6,938,938 B2 * 9/2005 Risle et al. 294/119.1
2001/0038175 A1 * 11/2001 Nagai et al. 269/32
2002/0084564 A1 * 7/2002 Horn et al. 269/32

2004/0061268 A1 * 4/2004 Sawdon 269/32
2004/0113343 A1 * 6/2004 McIntosh et al. 269/32
2006/0113720 A1 * 6/2006 Ferroud et al. 269/32
2006/0163790 A1 * 7/2006 Xu et al. 269/32
2007/0069439 A1 * 3/2007 McIntosh et al. 269/32

* cited by examiner

Primary Examiner—T. Chase Nelson

Assistant Examiner—David G Muller

(74) *Attorney, Agent, or Firm*—Yokoi & Co., U.S.A., Inc.;
Peter Ganjian

(57) **CLAIM**

The ornamental design for an electric gripper, as shown and described.

DESCRIPTION

FIG. 1 shows a front view of an electric gripper showing my new design;

FIG. 2 shows a rear view thereof;

FIG. 3 shows a top view thereof;

FIG. 4 shows a bottom view thereof;

FIG. 5 shows a left side view thereof;

FIG. 6 shows a right side view thereof; and,

FIG. 7 shows a top, front and left side perspective view thereof.

The broken lines shown in the figures are included for the purpose of illustrating environment only and form no part of the claimed design.

1 Claim, 4 Drawing Sheets

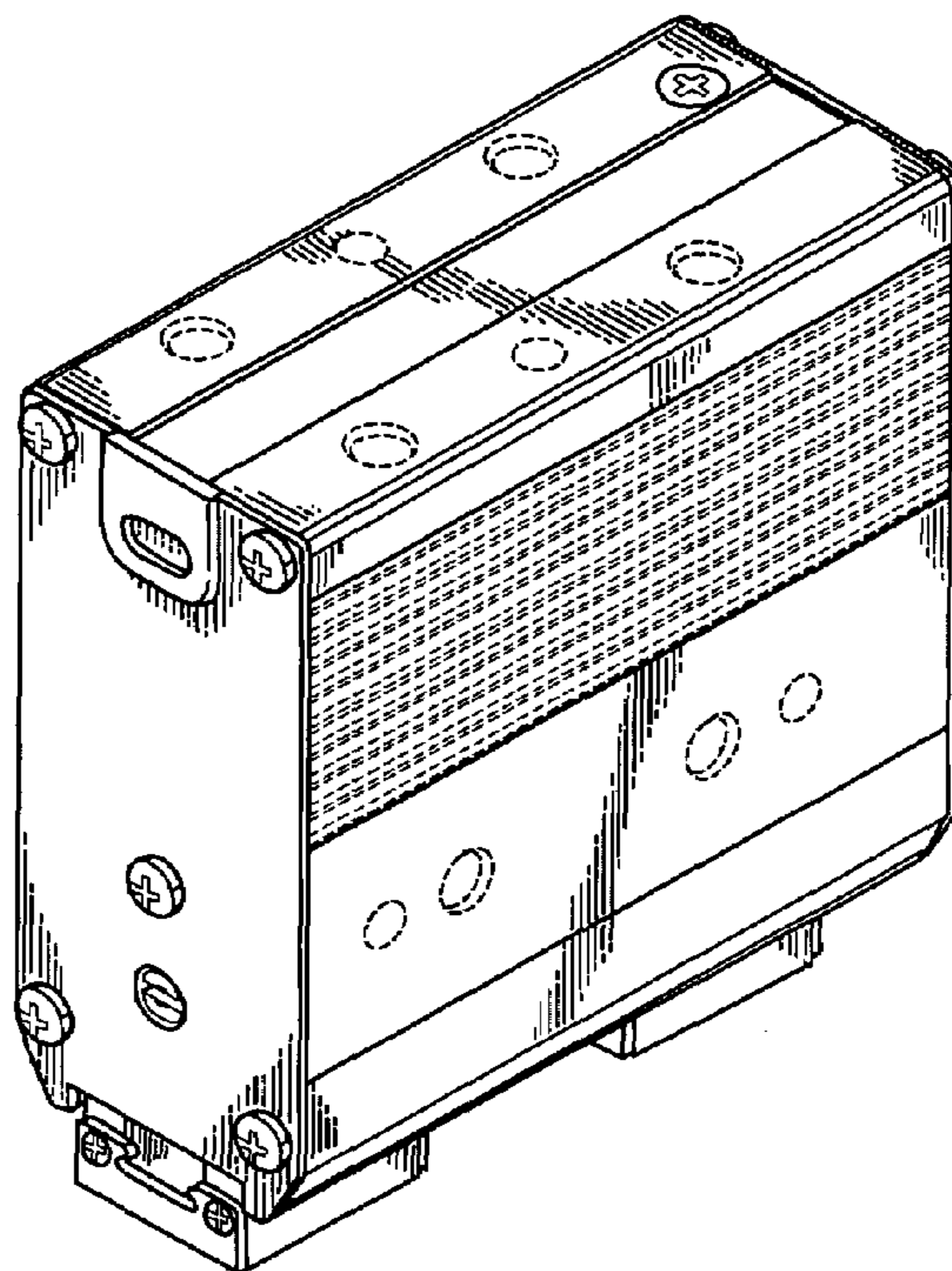


FIG. 1

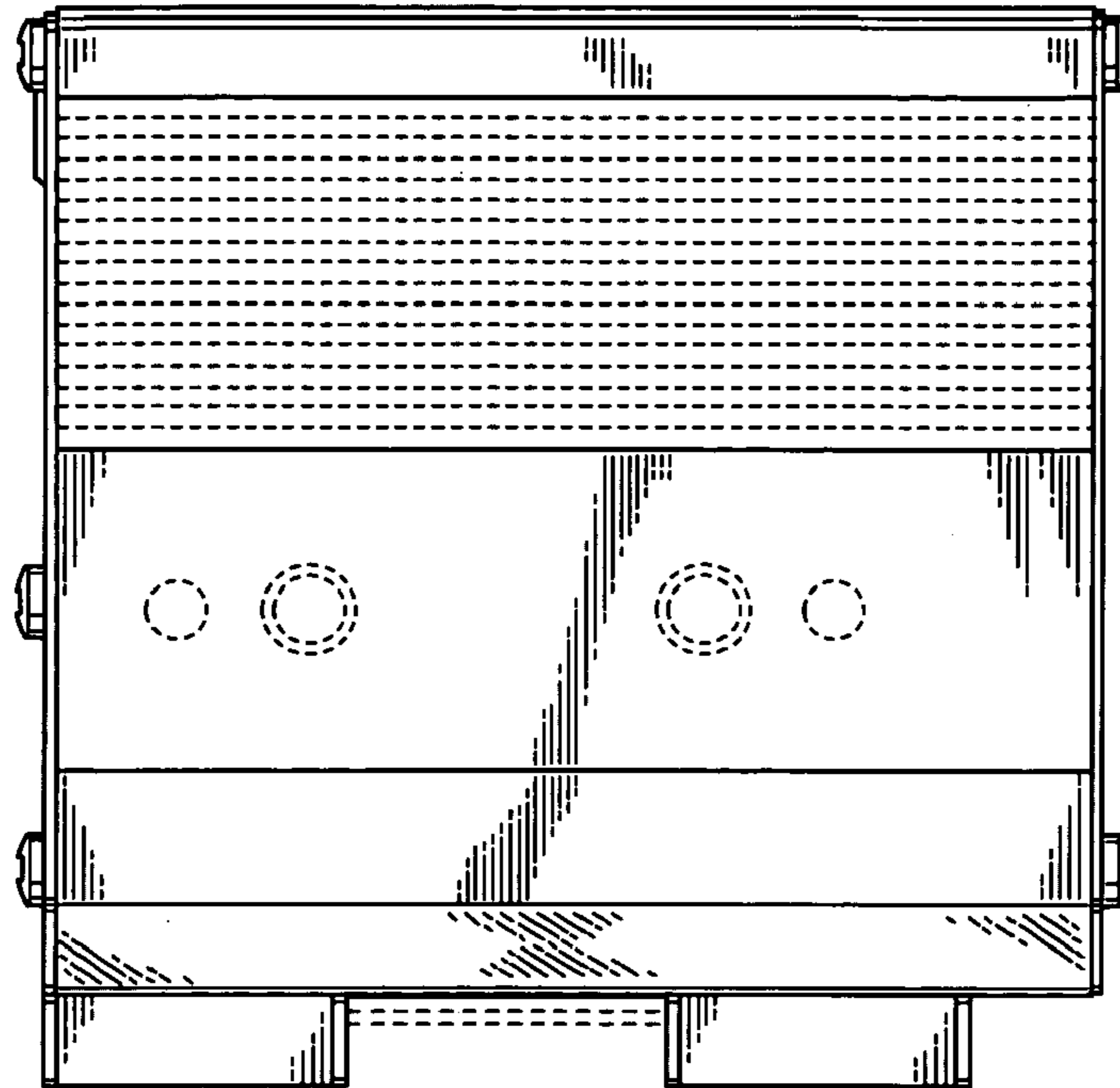


FIG. 2

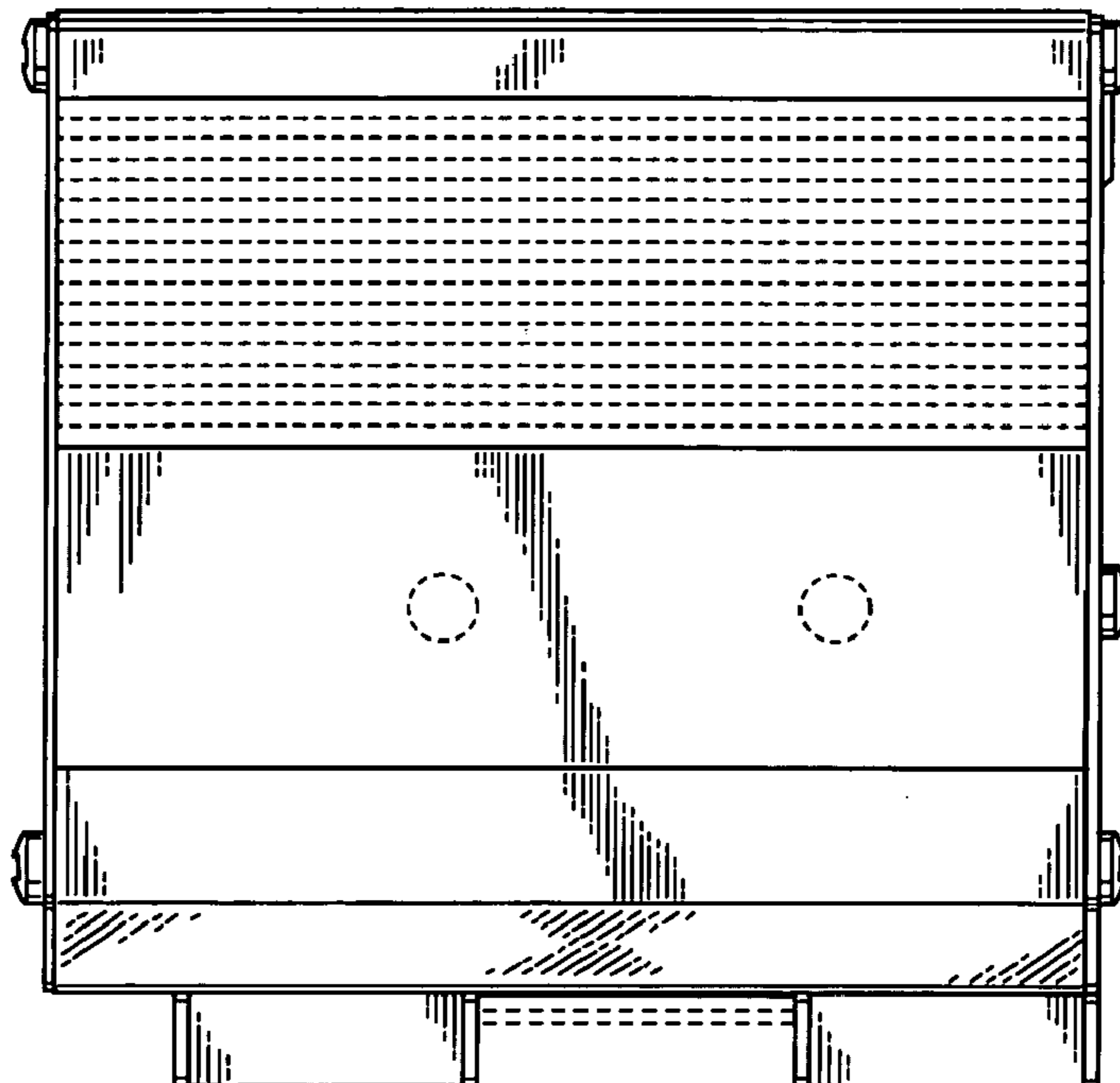


FIG. 3

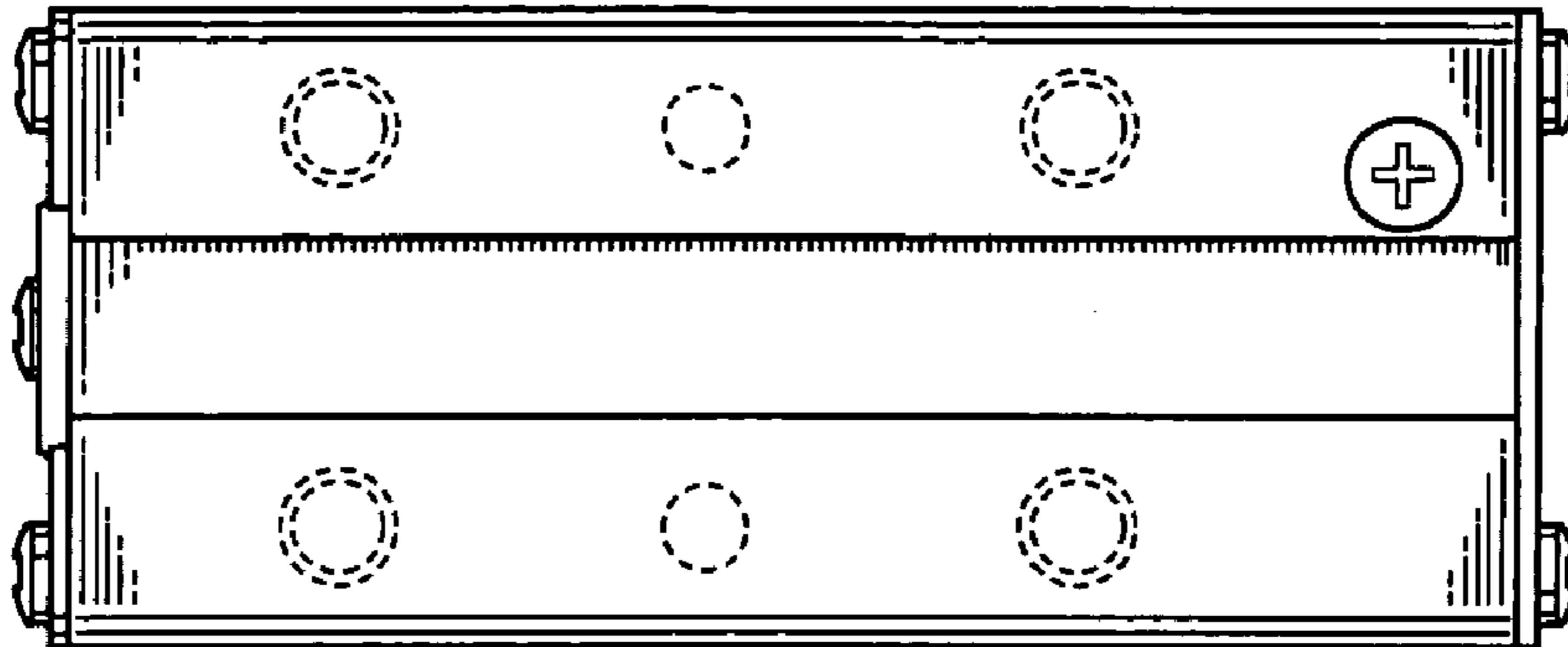


FIG. 4

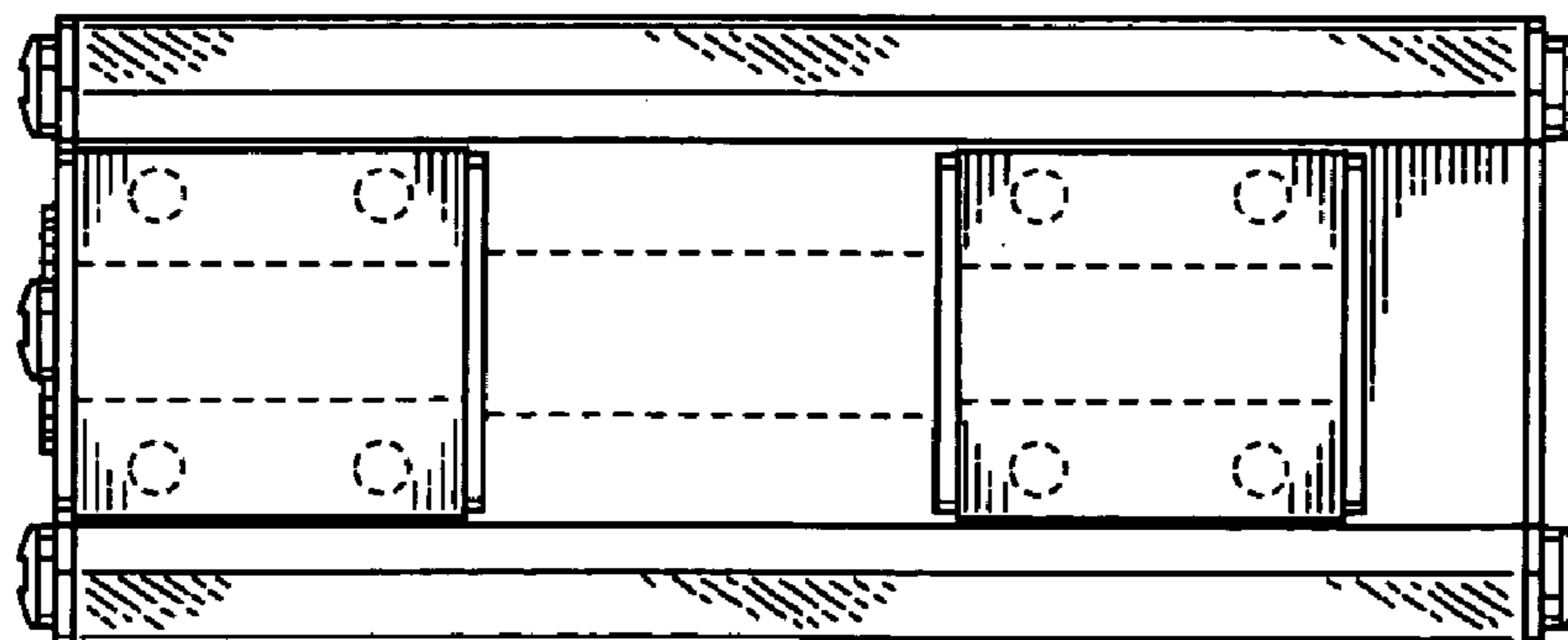


FIG. 5

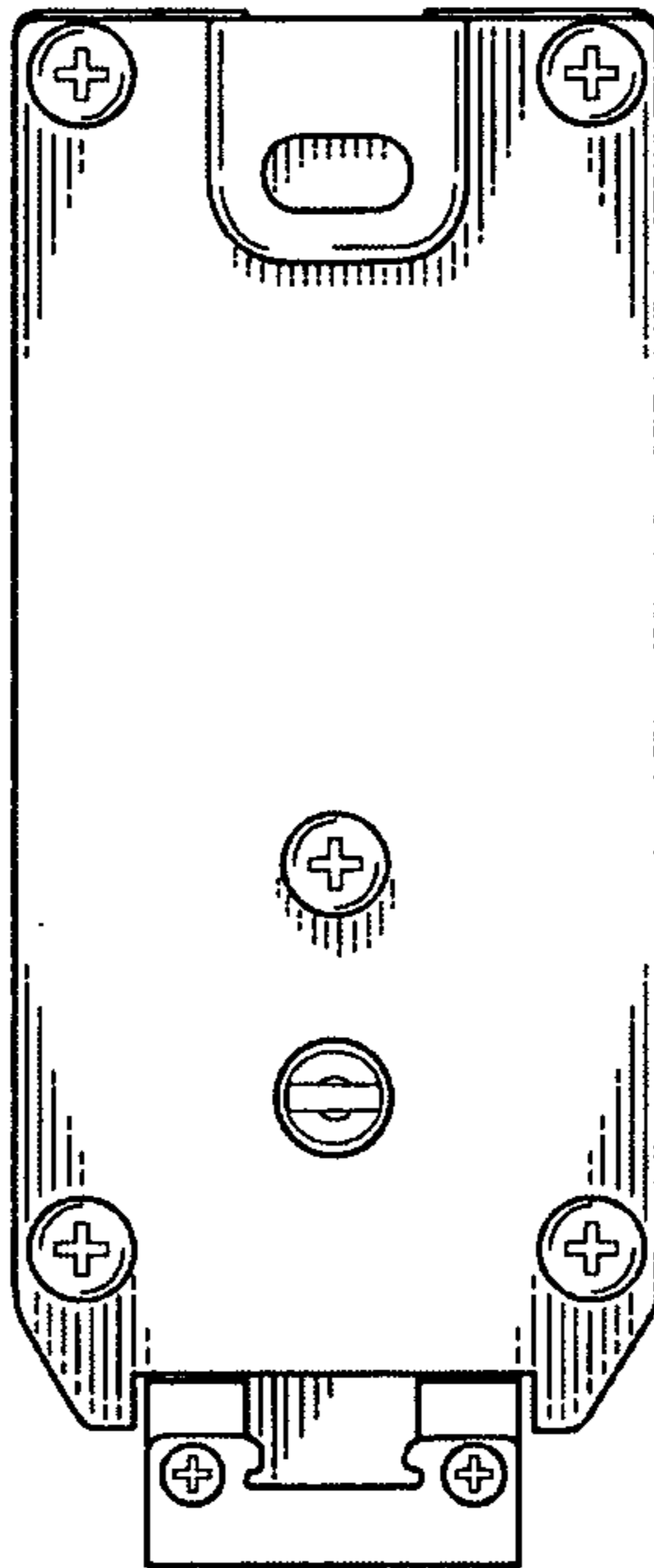


FIG. 6

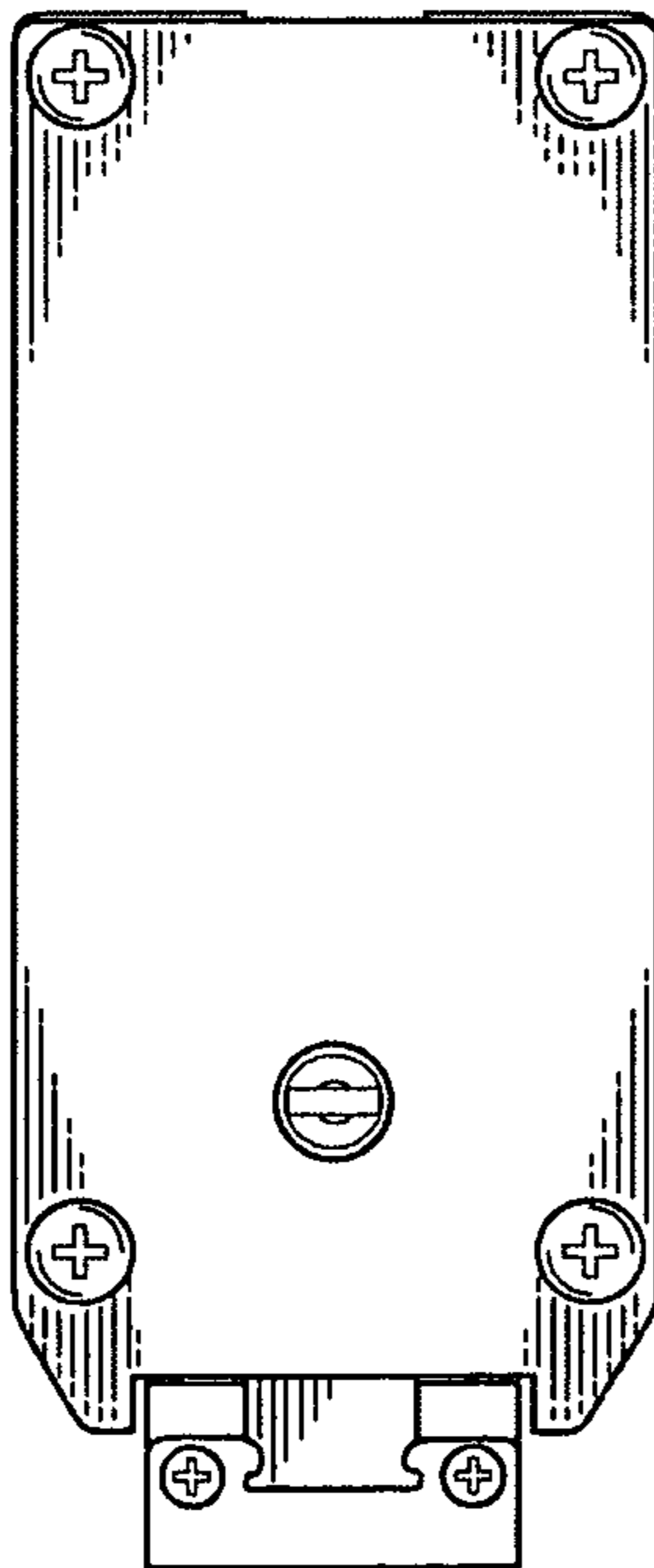


FIG. 7

