



US00D914138S

(12) **United States Design Patent** (10) **Patent No.:** **US D914,138 S**
Mita et al. (45) **Date of Patent:** **** Mar. 23, 2021**

(54) **ELECTROMAGNETIC DRIVING PILOT VALVE**

D830,513 S * 10/2018 Sato D23/233
D832,400 S * 10/2018 Sato D23/233
D891,586 S * 7/2020 Sekine D23/249

(Continued)

(71) Applicant: **SMC CORPORATION**, Chiyoda-ku
(JP)

FOREIGN PATENT DOCUMENTS

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JP D1282955 S 10/2006
JP D1548222 S 4/2016
JP 2017-9073 A 1/2017

(Continued)

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

OTHER PUBLICATIONS

(**) Term: **15 Years**

Notification of Reason(s) for Refusal dated Aug. 19, 2019 in Japanese Design Application No. 2018-025483 (with English translation), 9 pages.

(21) Appl. No.: **29/689,320**

(22) Filed: **Apr. 29, 2019**

Primary Examiner — Gino Colan

(30) **Foreign Application Priority Data**

(74) *Attorney, Agent, or Firm* — Oblon, McClelland, Maier & Neustadt, L.L.P.

Nov. 22, 2018 (JP) 2018-025483

(51) **LOC (13) Cl.** **23-01**

(57) **CLAIM**

(52) **U.S. Cl.**
USPC **D23/233**

The ornamental design for an electromagnetic driving pilot valve, as shown and described.

(58) **Field of Classification Search**
USPC D23/233, 249; 137/884, 597, 606,
137/625.64, 271; 251/129.15, 129.01,
251/129.22

DESCRIPTION

CPC F16K 31/0675; F16K 27/029; F16K
31/0658; F16K 31/082; F16K 27/048;
F16K 11/24; H01F 2007/1692

See application file for complete search history.

FIG. 1 is a front, top, and left side perspective view of an electromagnetic driving pilot valve;
FIG. 2 is a rear, bottom, and right side perspective view thereof;
FIG. 3 is a front elevational view thereof, the rear elevational view being symmetrical to the front elevational view;
FIG. 4 is a top plan view thereof;
FIG. 5 is a bottom plan view thereof;
FIG. 6 is a left side elevational view thereof; and,
FIG. 7 is a right side elevational view thereof.

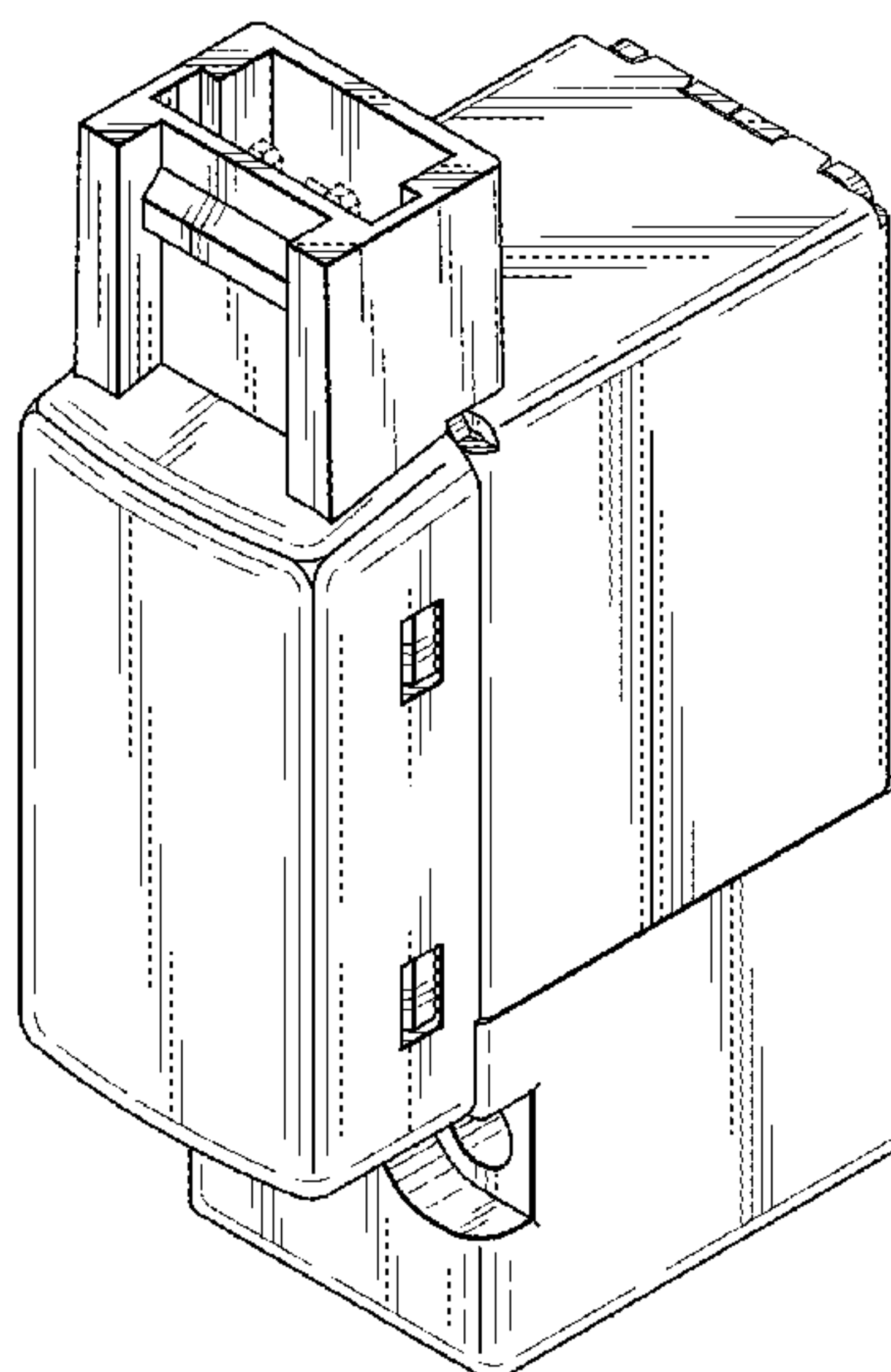
(56) **References Cited**

U.S. PATENT DOCUMENTS

D438,596 S * 3/2001 Takada D23/233
D594,930 S 6/2009 Takakuwa et al.
D783,127 S 4/2017 Miyazoe et al.
D828,499 S * 9/2018 Doi D23/233
D830,511 S * 10/2018 Sato D23/233
D830,512 S * 10/2018 Sato D23/233

The broken lines shown in the figures are for the purpose of illustrating portions of the electromagnetic driving pilot valve that form no part of the claimed design.

1 Claim, 7 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

2018/0135766 A1 5/2018 Miyazoe et al.
2018/0274687 A1 9/2018 Miyazoe et al.

FOREIGN PATENT DOCUMENTS

JP 2017-72162 A 4/2017
KR 30-0463894 S 10/2007

* cited by examiner

FIG. 1

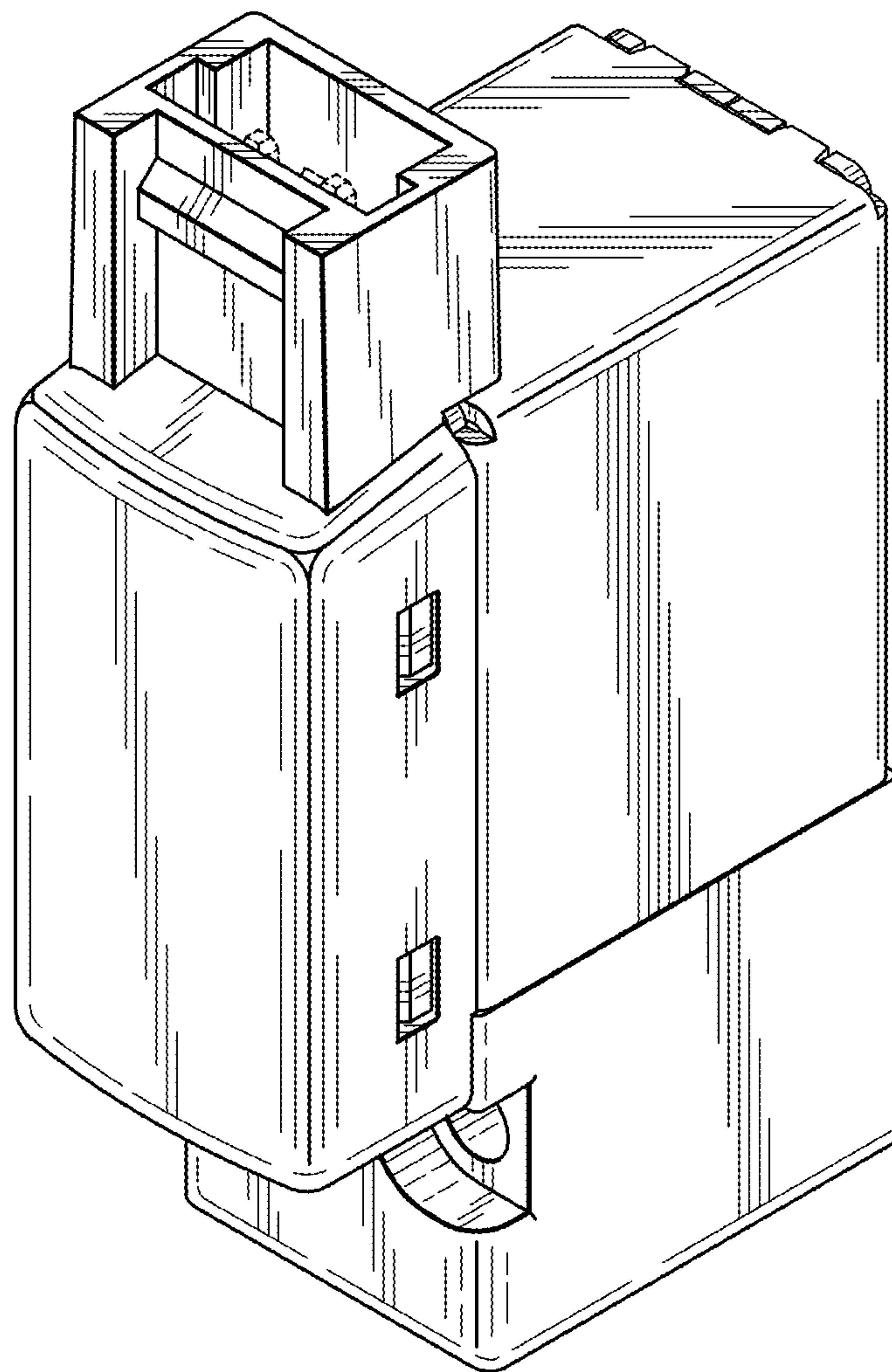


FIG. 2

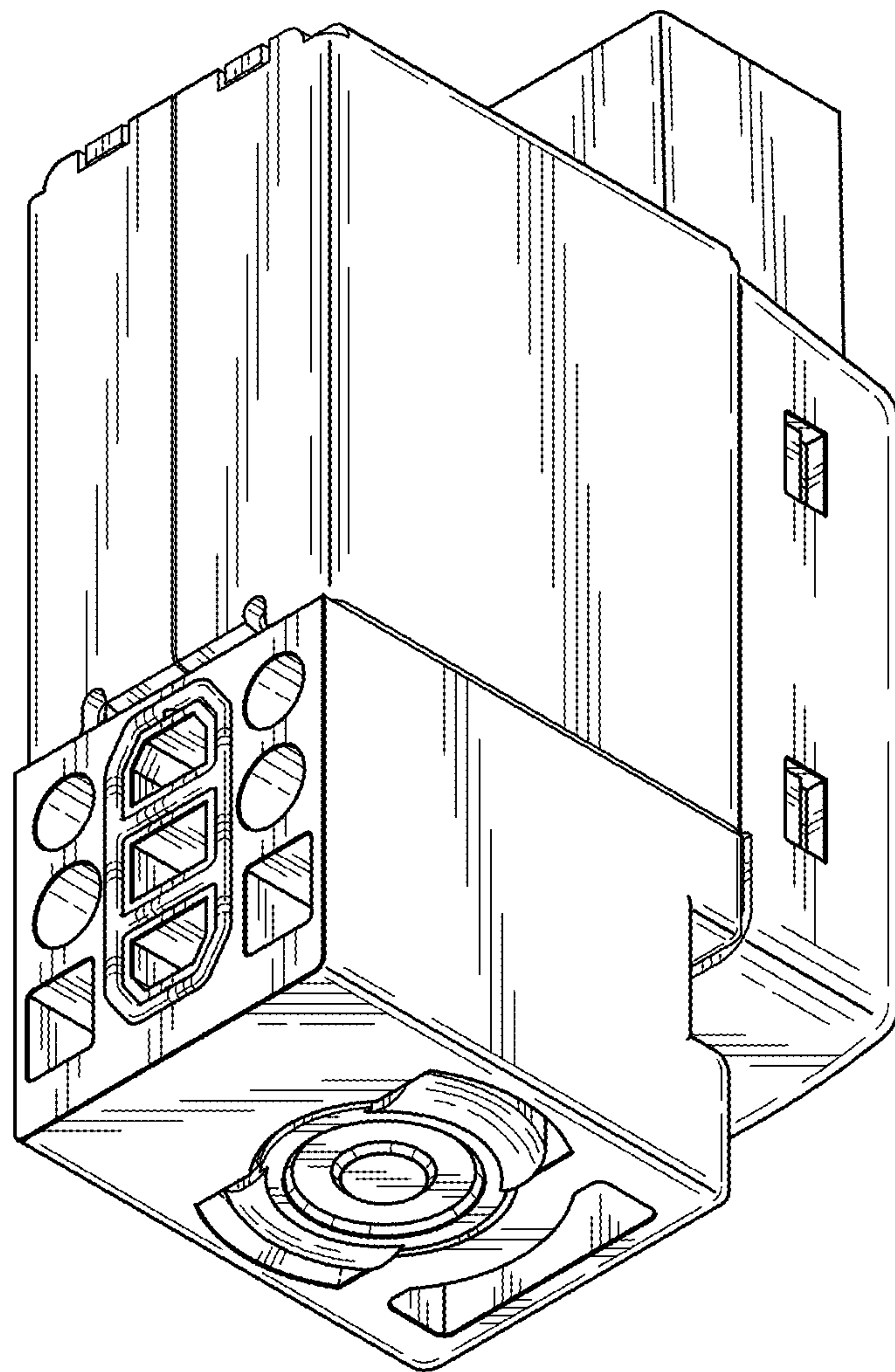


FIG. 3

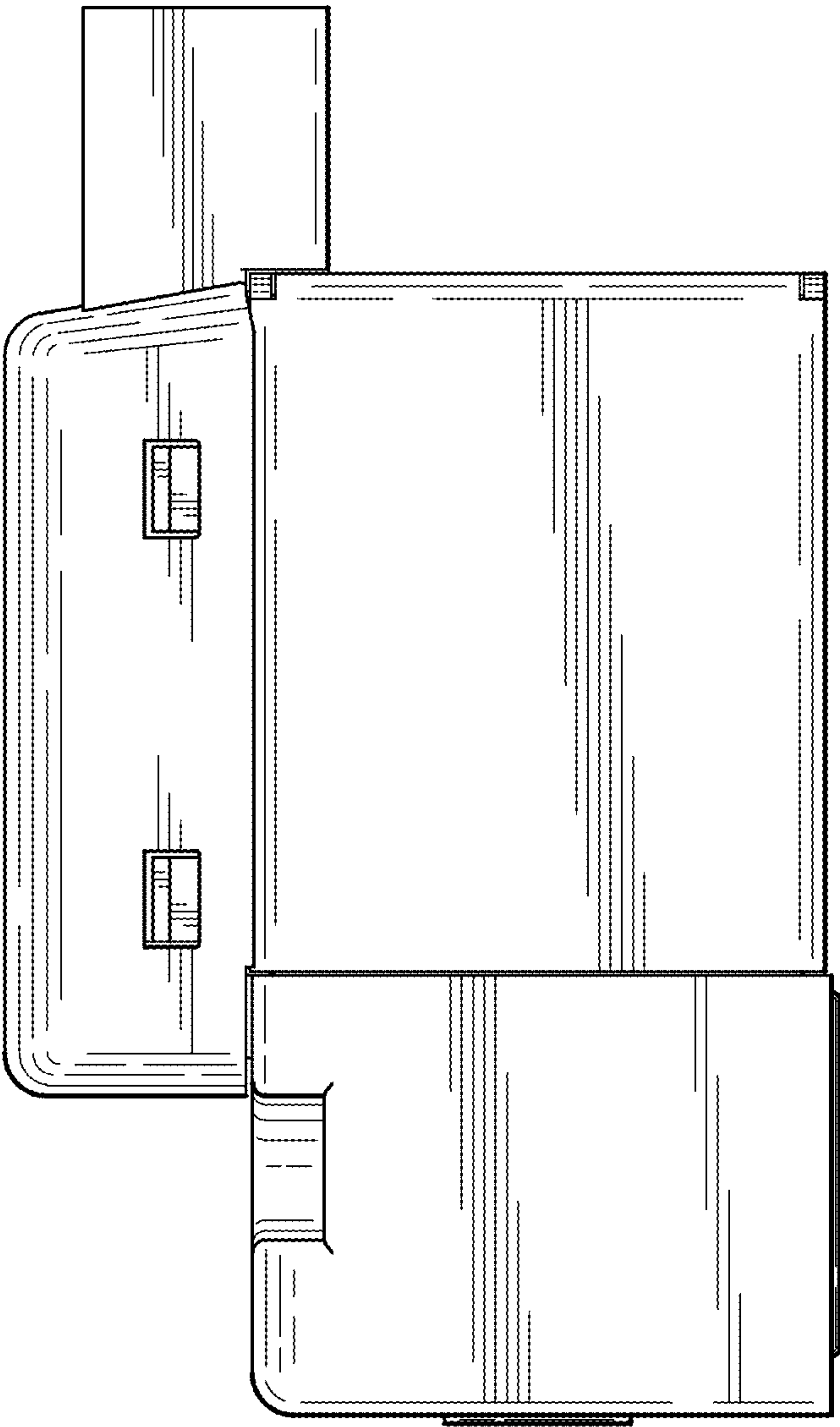


FIG. 4

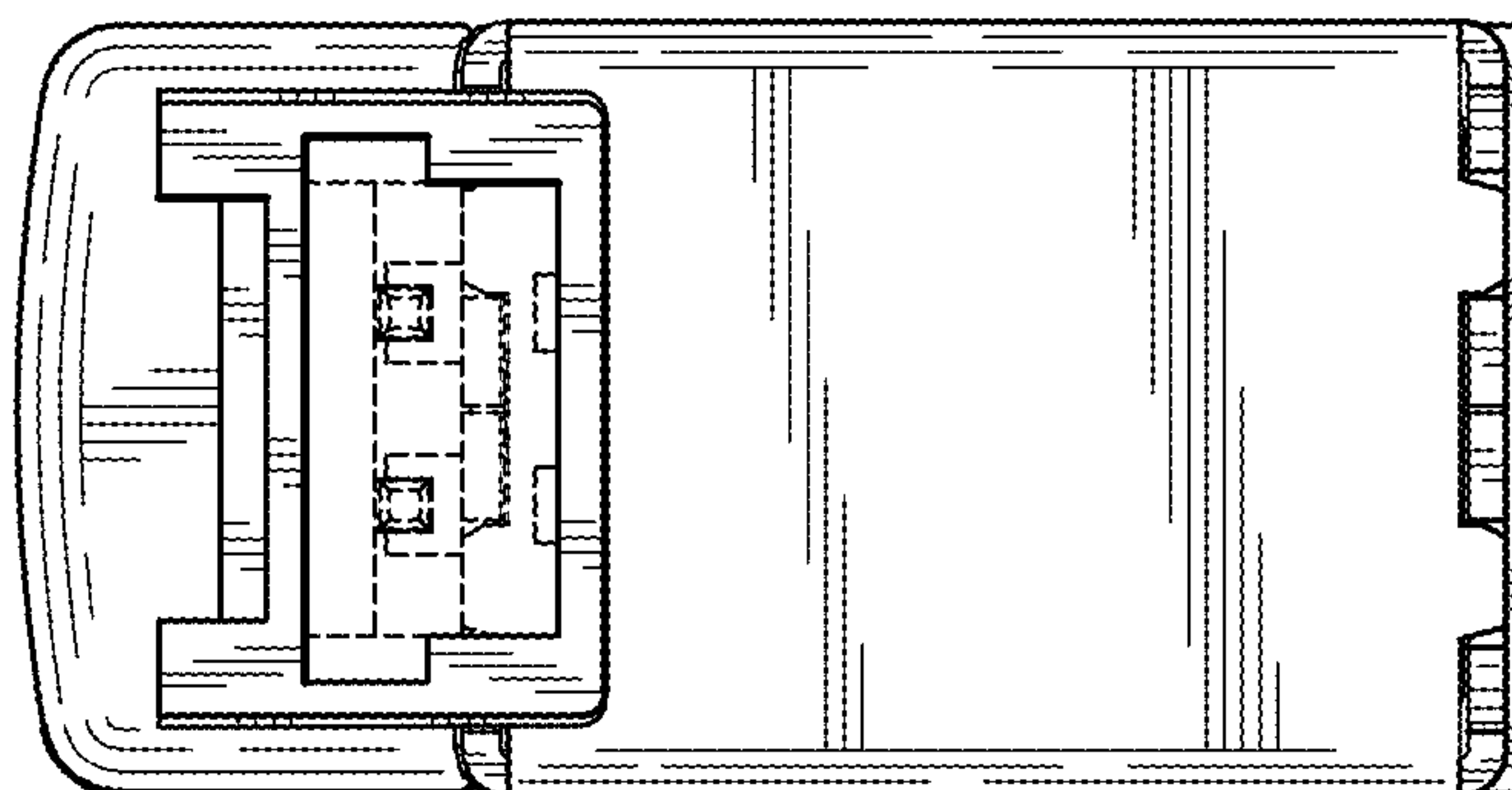


FIG. 5

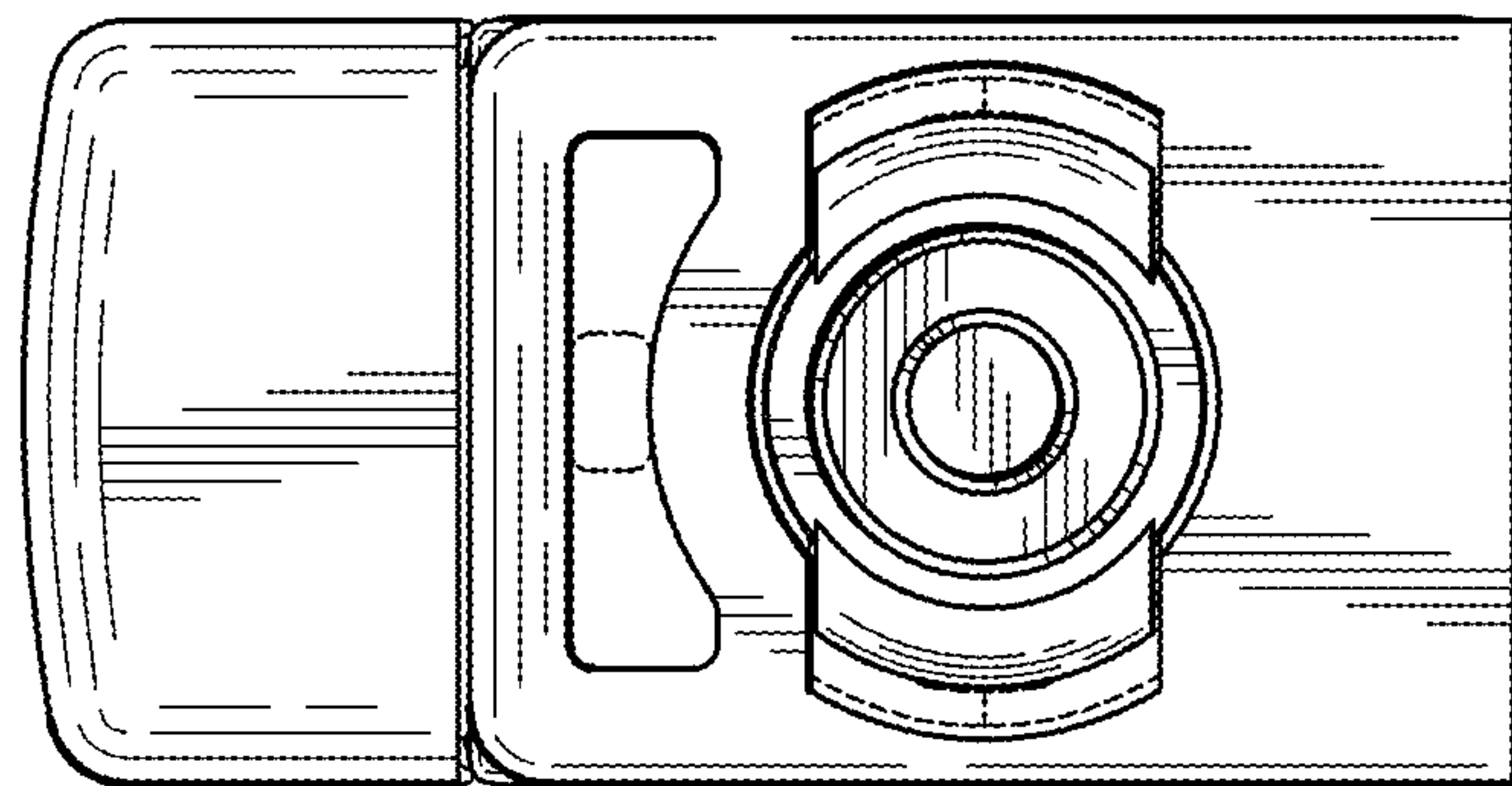


FIG. 6

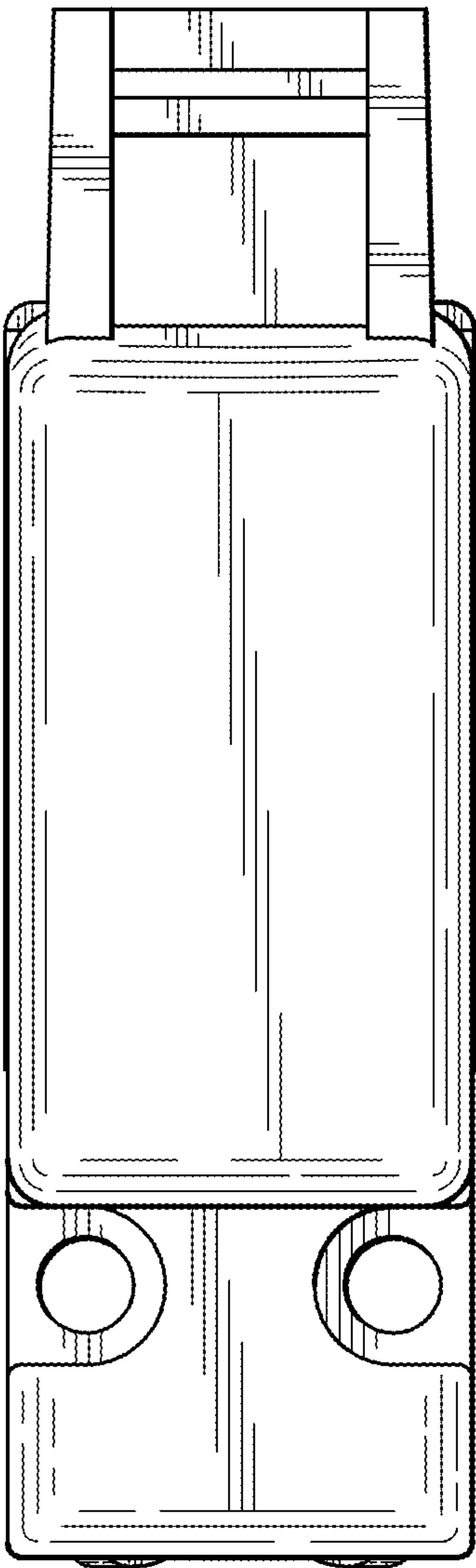


FIG. 7

