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(12) **United States Design Patent** (10) **Patent No.:** **US D852,744 S**
Nakayama et al. (45) **Date of Patent:** **** Jul. 2, 2019**

(54) **VACUUM GENERATOR**

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

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(30) **Foreign Application Priority Data**

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(51) **LOC (11) Cl.** **13-01**

(52) **U.S. Cl.**
USPC **D13/112**

(58) **Field of Classification Search**
USPC D13/112, 113, 114, 118, 122, 133, 146,
D13/147, 154, 184, 199
CPC .. F04B 49/00; F04F 5/48; F16C 29/02; F16C
33/043; F16H 25/04; F16H 57/04; C23C
14/06; C23C 16/27; C23C 28/04
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D413,129 S * 8/1999 Nagai D15/199
D550,617 S * 9/2007 Wang D13/101

D557,210 S * 12/2007 Liu D13/112
D624,099 S * 9/2010 Fukano D13/158
D624,572 S * 9/2010 Fukano D13/158
D688,627 S * 8/2013 Veeh D13/112
D762,574 S * 8/2016 Grillenberger D13/112
D770,387 S * 11/2016 Utermoehe D13/147
D816,032 S * 4/2018 Panzer D13/112
D817,276 S * 5/2018 Ozaki D13/112
D818,435 S * 5/2018 Matthews D13/112

* cited by examiner

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(57) **CLAIM**

The ornamental design for a vacuum generator, as shown
and described.

DESCRIPTION

FIG. 1 is a front, top, and left side perspective view of a
vacuum generator showing our new design;

FIG. 2 is a rear, bottom, and left side perspective view
thereof;

FIG. 3 is a front elevational view thereof, the rear elevational
view being a mirror image of the front elevational view
shown;

FIG. 4 is a top plan view thereof;

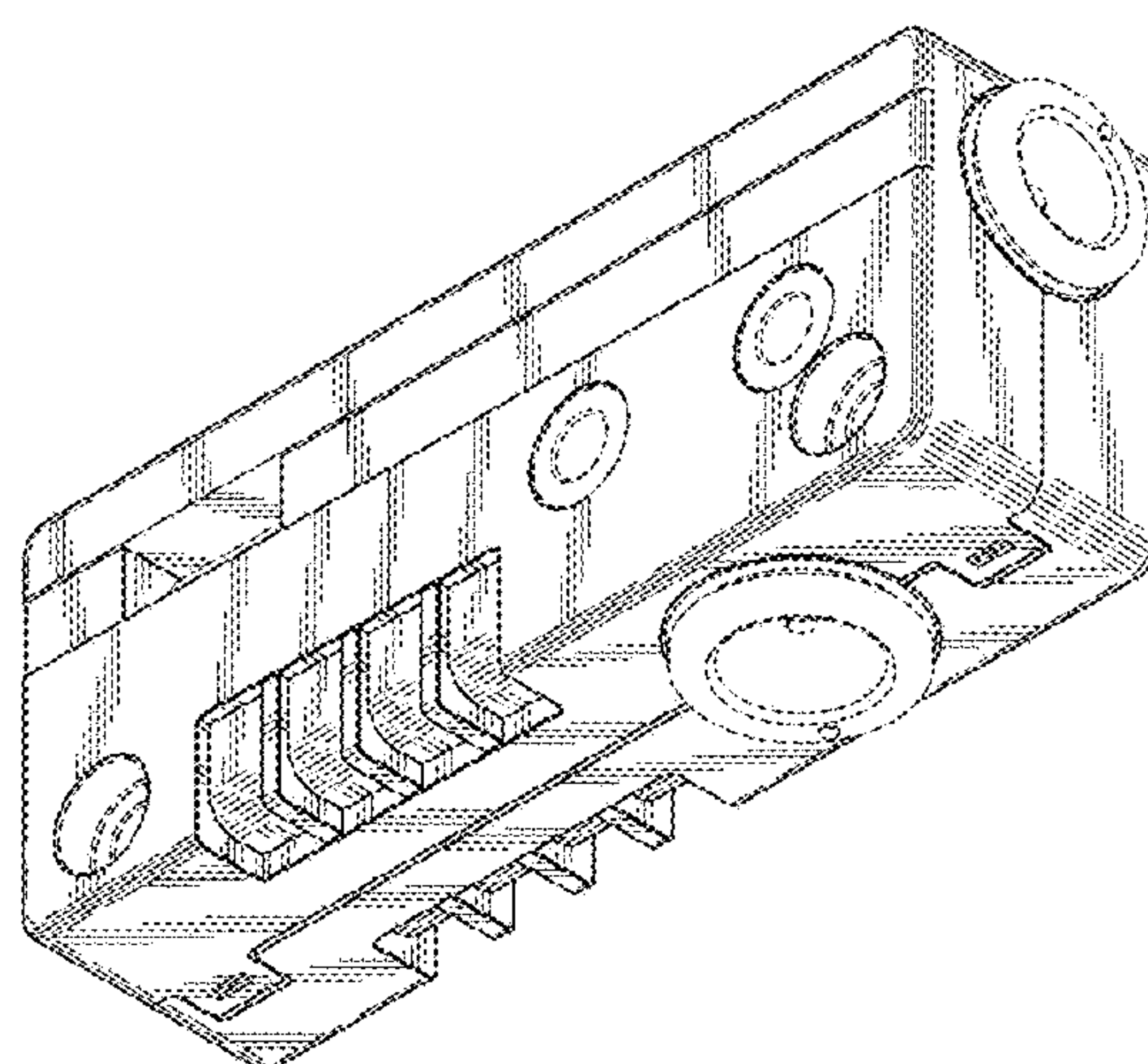
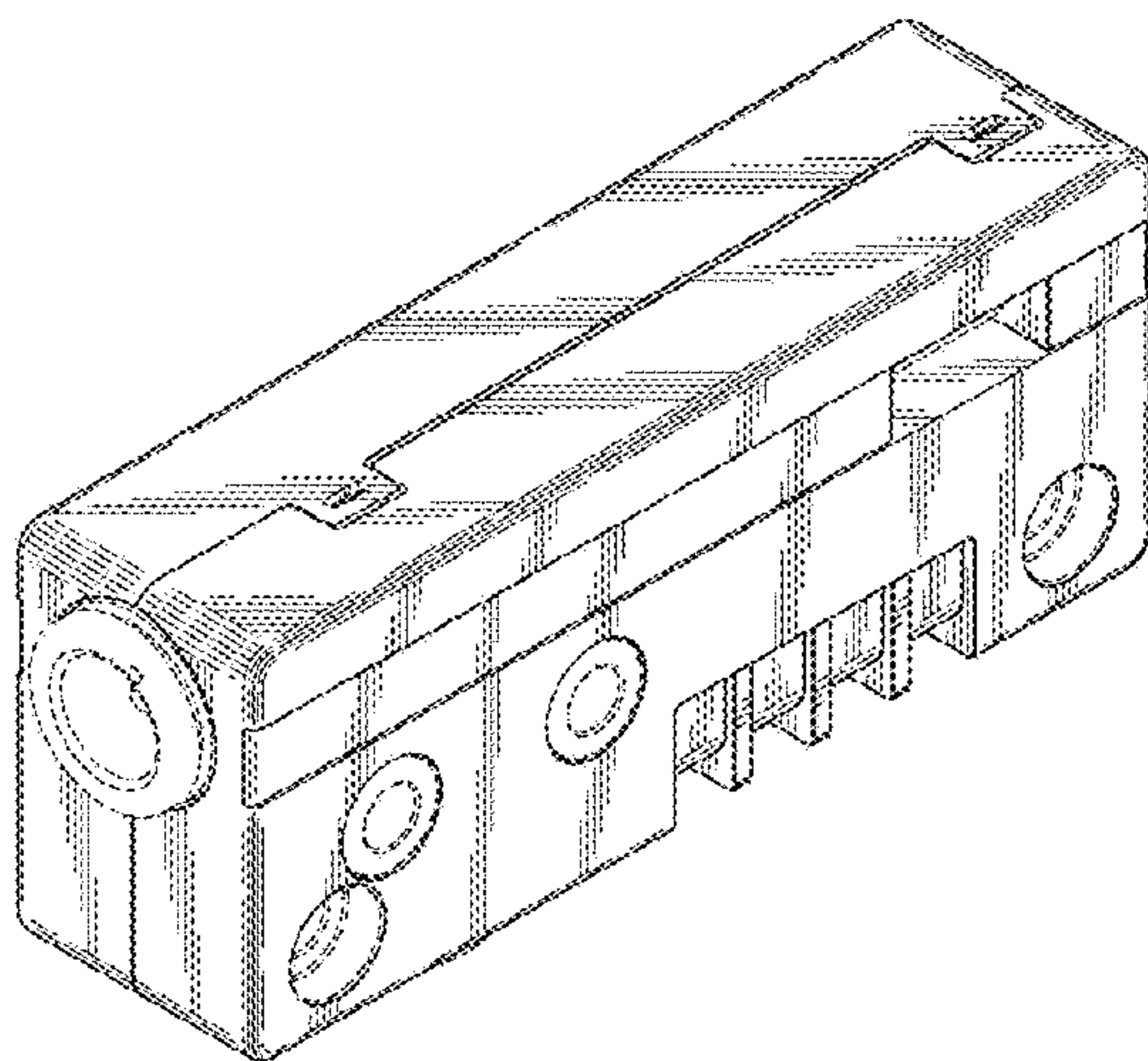
FIG. 5 is a bottom plan view thereof;

FIG. 6 is a left side elevational view thereof; and,

FIG. 7 is a right side elevational view thereof.

The broken lines in the drawings illustrate portions of the
vacuum generator that form no part of the claimed design.

1 Claim, 5 Drawing Sheets



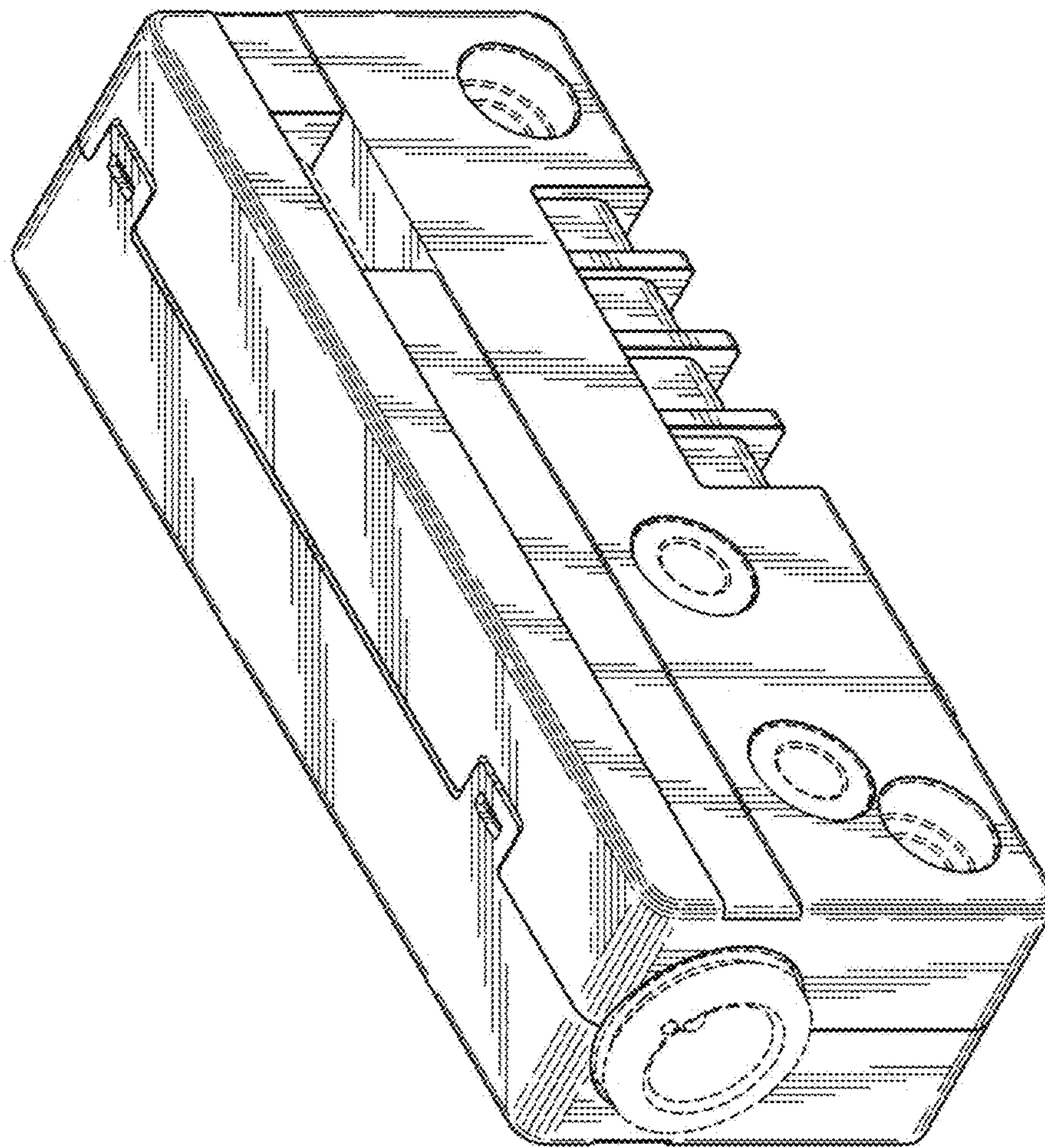
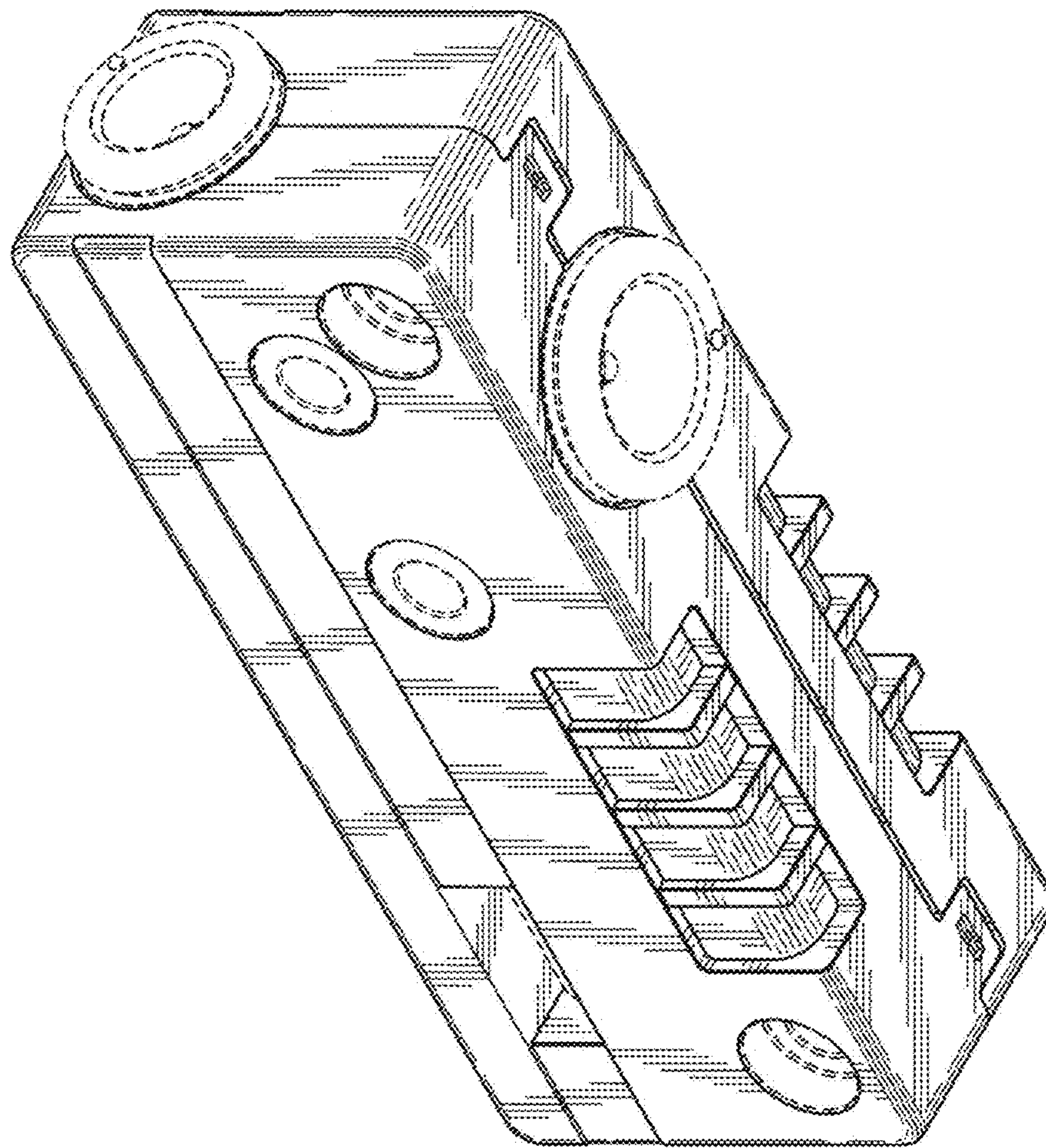


FIG. 1

FIG. 2



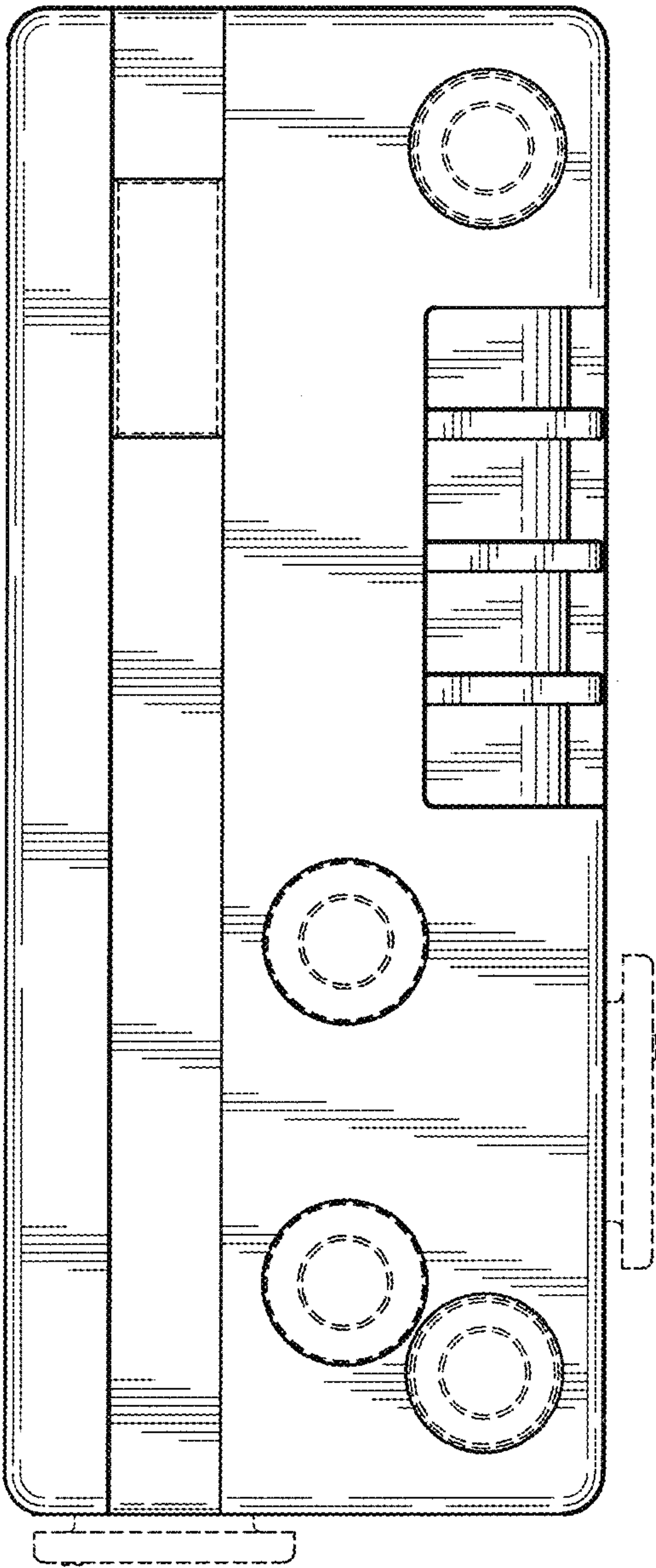


FIG. 3

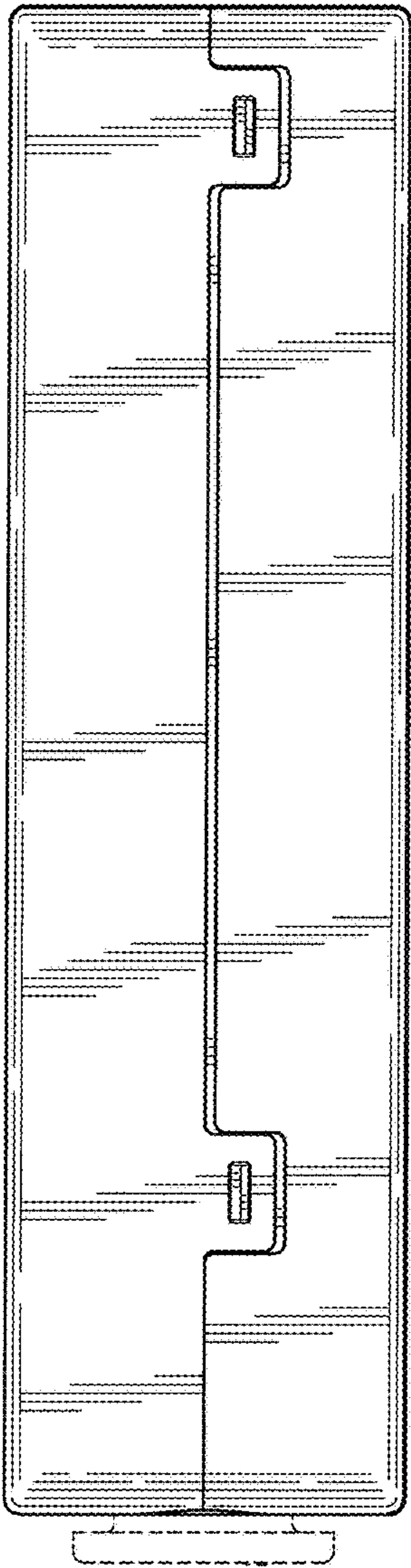


FIG. 4

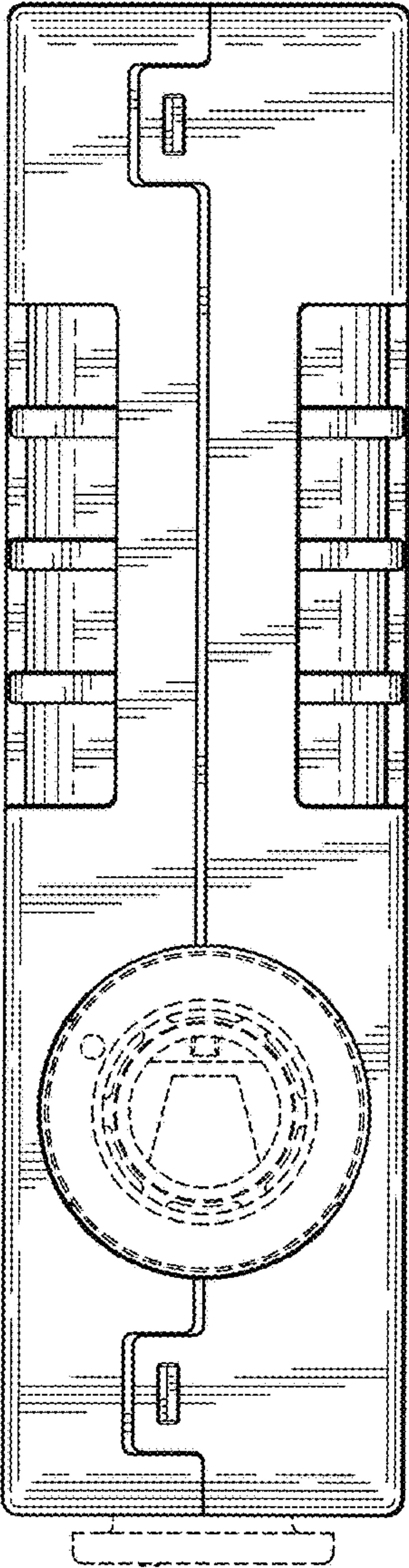


FIG. 5

FIG. 7

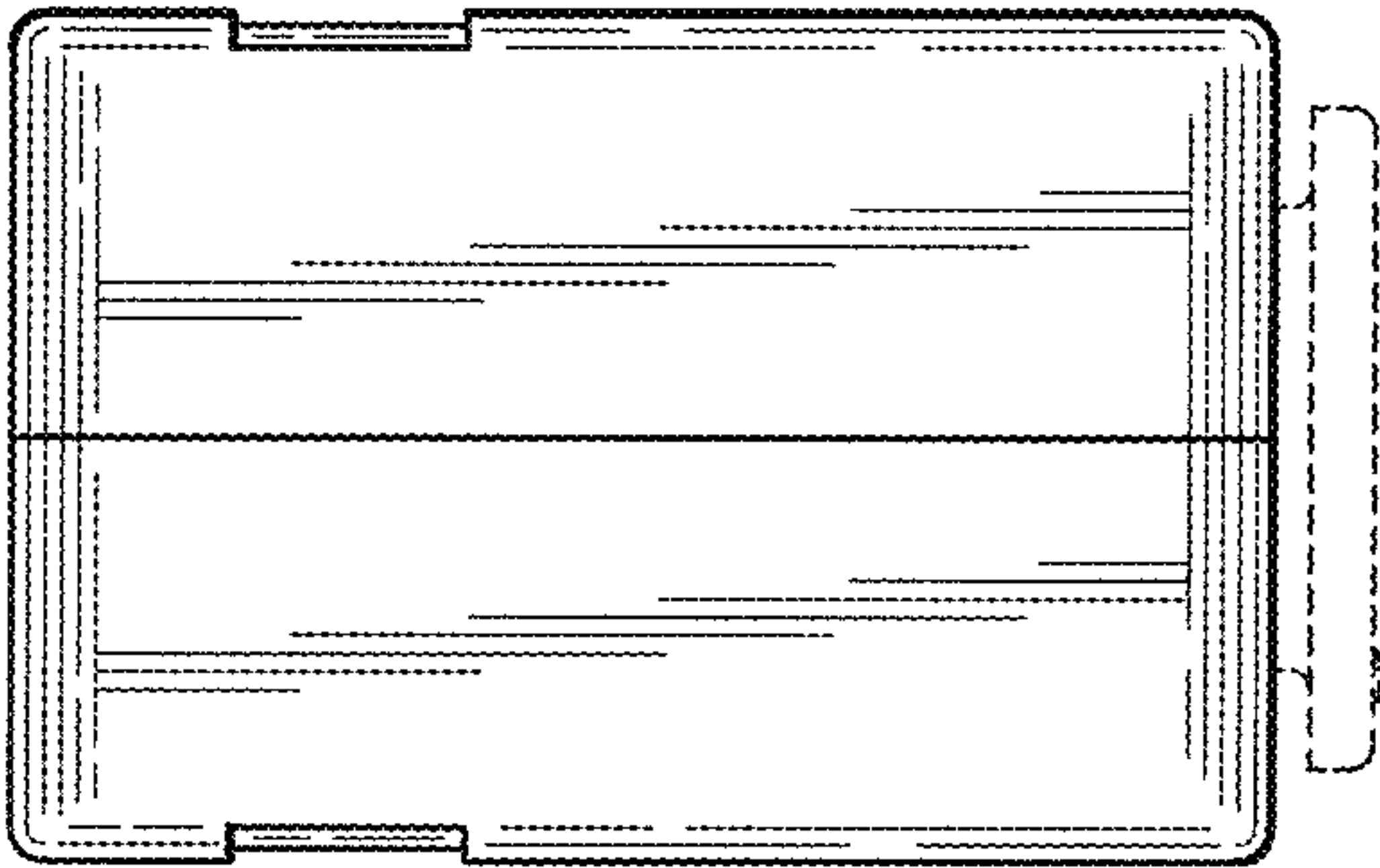


FIG. 6

