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(12) **United States Design Patent**
Lv

(10) **Patent No.:** **US D946,840 S**

(45) **Date of Patent:** **** Mar. 22, 2022**

(54) **ROBOT VACUUM CLEANER**

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(72) Inventor: **Zhaohua Lv**, Suzhou (CN)

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

(21) Appl. No.: **29/705,248**

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(30) **Foreign Application Priority Data**

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(51) **LOC (13) Cl.** **15-05**

(52) **U.S. Cl.**

USPC **D32/21**

(58) **Field of Classification Search**

USPC D32/21, 31; D21/526, 578; D8/70, 310, D8/330; D10/37, 38, 50, 106.2, 106.5; D13/108, 209

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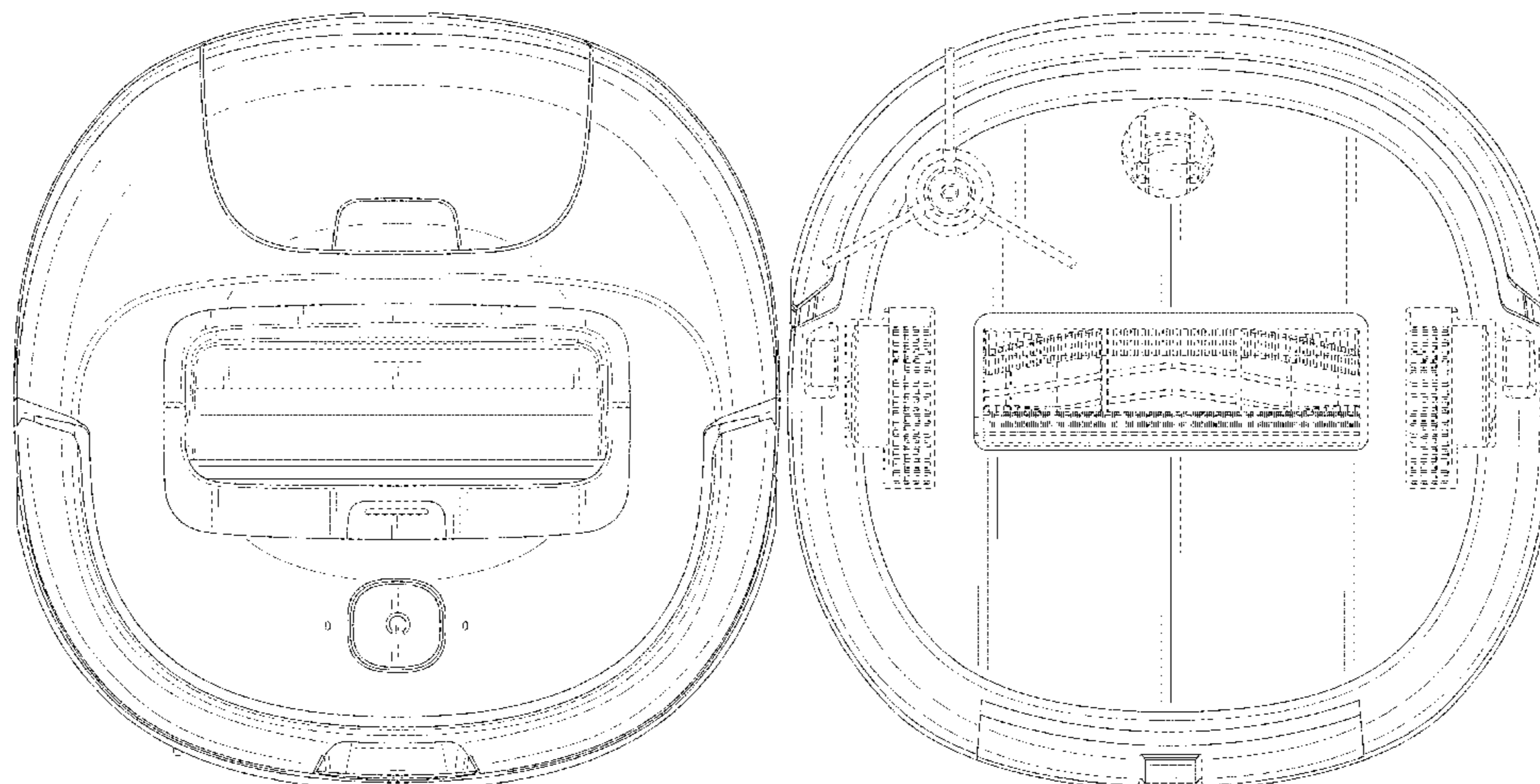
(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a front elevation view of a first embodiment of a robot vacuum cleaner, showing the new design; FIG. 2 is a back elevation view thereof; FIG. 3 is a left elevation view thereof; FIG. 4 is a right elevation view thereof; FIG. 5 is a top plan view thereof; FIG. 6 is a bottom plan view thereof; FIG. 7 is a front perspective view thereof; FIG. 8 is a rear perspective view thereof; FIG. 9 is a front elevation view of a second embodiment of the robot vacuum cleaner, showing the new design; FIG. 10 is a back elevation view thereof; FIG. 11 is a left elevation view thereof; FIG. 12 is a right elevation view thereof; FIG. 13 is a top plan view thereof; FIG. 14 is a bottom plan view thereof; FIG. 15 is a front perspective view thereof; FIG. 16 is a rear perspective view thereof; FIG. 17 is a front elevation view of a third embodiment of the robot vacuum cleaner, showing the new design; FIG. 18 is a back elevation view thereof; FIG. 19 is a left elevation view thereof; FIG. 20 is a right elevation view thereof; FIG. 21 is a top plan view thereof; FIG. 22 is a bottom plan view thereof; FIG. 23 is a front perspective view thereof; and, FIG. 24 is a rear perspective view thereof.

(Continued)



The broken lines show portions of the robot vacuum cleaner that form no part of the claimed design.

1 Claim, 24 Drawing Sheets

(58) **Field of Classification Search**

CPC . A47L 5/08; A47L 5/30; A47L 7/0004; A47L 9/04; A47L 9/168; A47L 9/2805; A47L 9/2873; A47L 11/4011; A47L 11/4016; A47L 11/4038; A47L 11/4041; A47L 11/4044; A47L 2201/02; A47L 2201/04; A47L 2201/06; B25J 9/0003; B25J 9/1694; E04H 4/1636; G05D 1/0225; G06N 3/008

See application file for complete search history.

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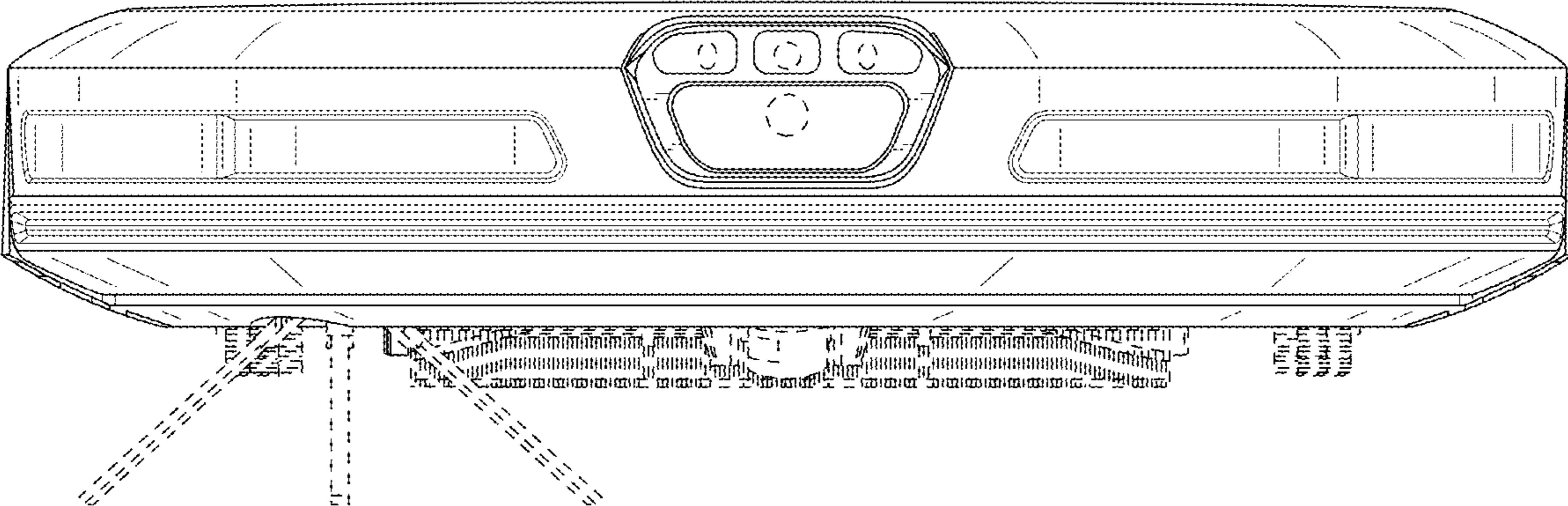


FIG. 1

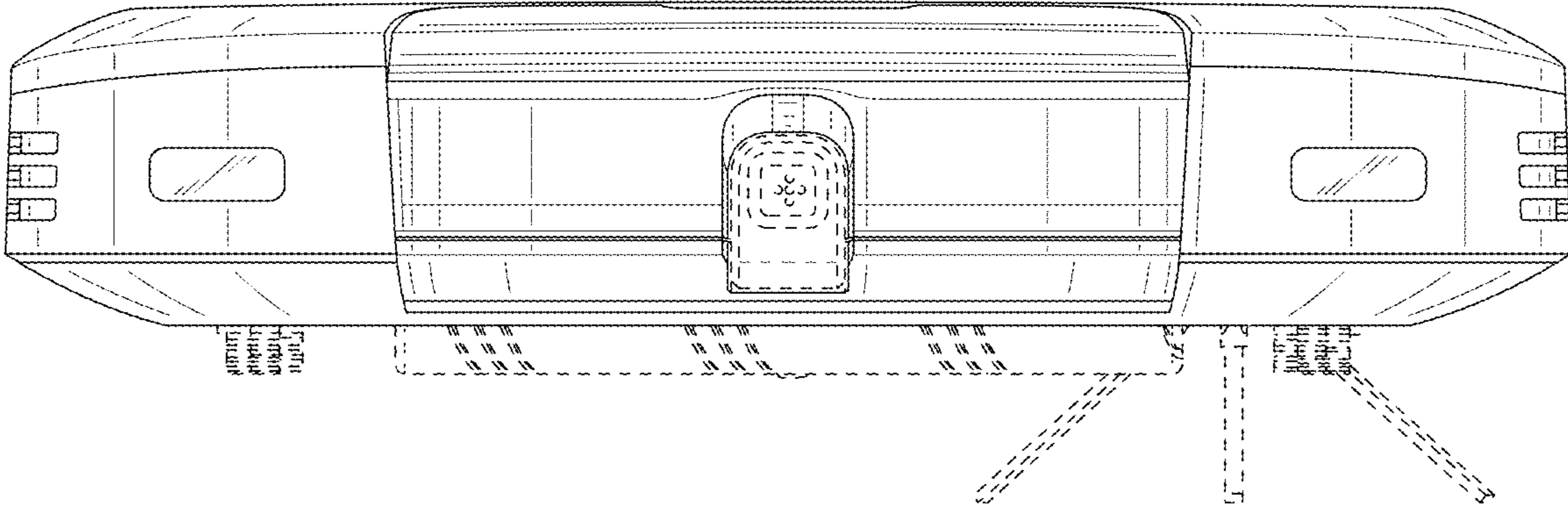


FIG. 2

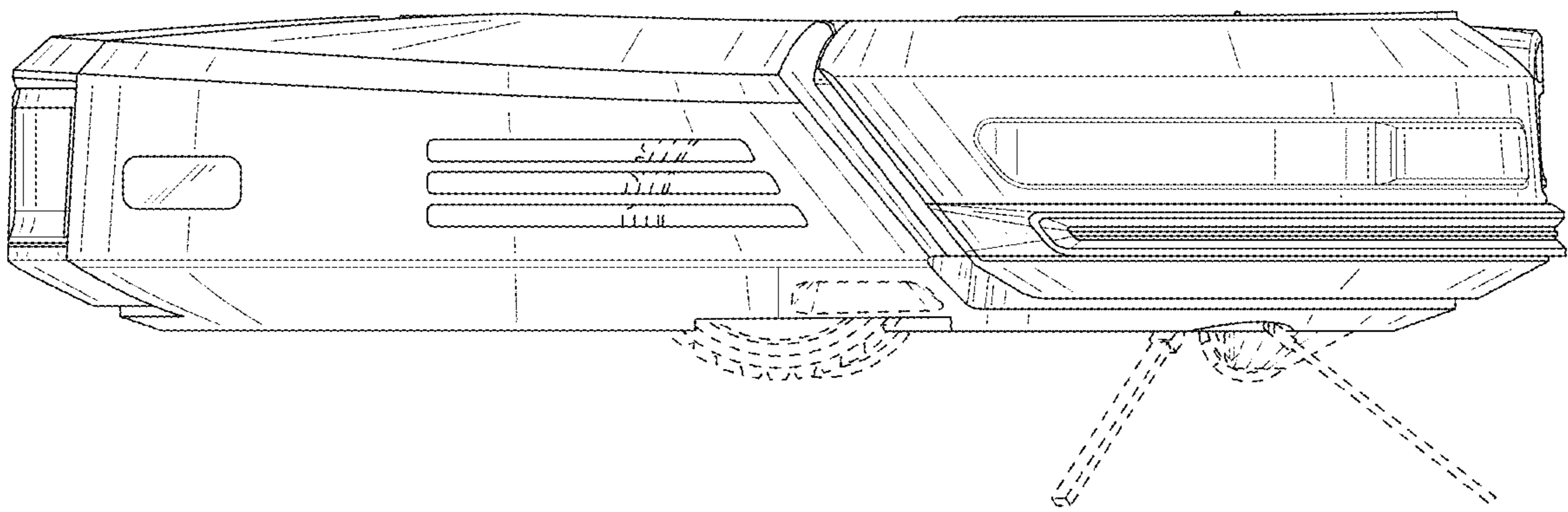


FIG. 3

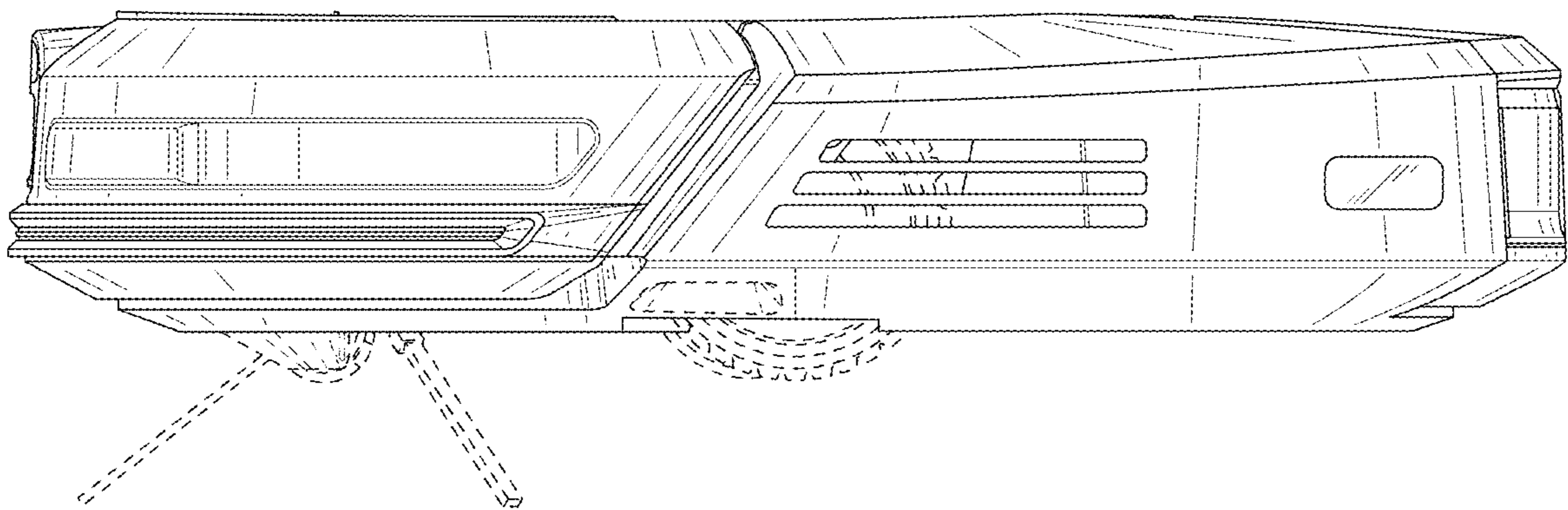


FIG. 4

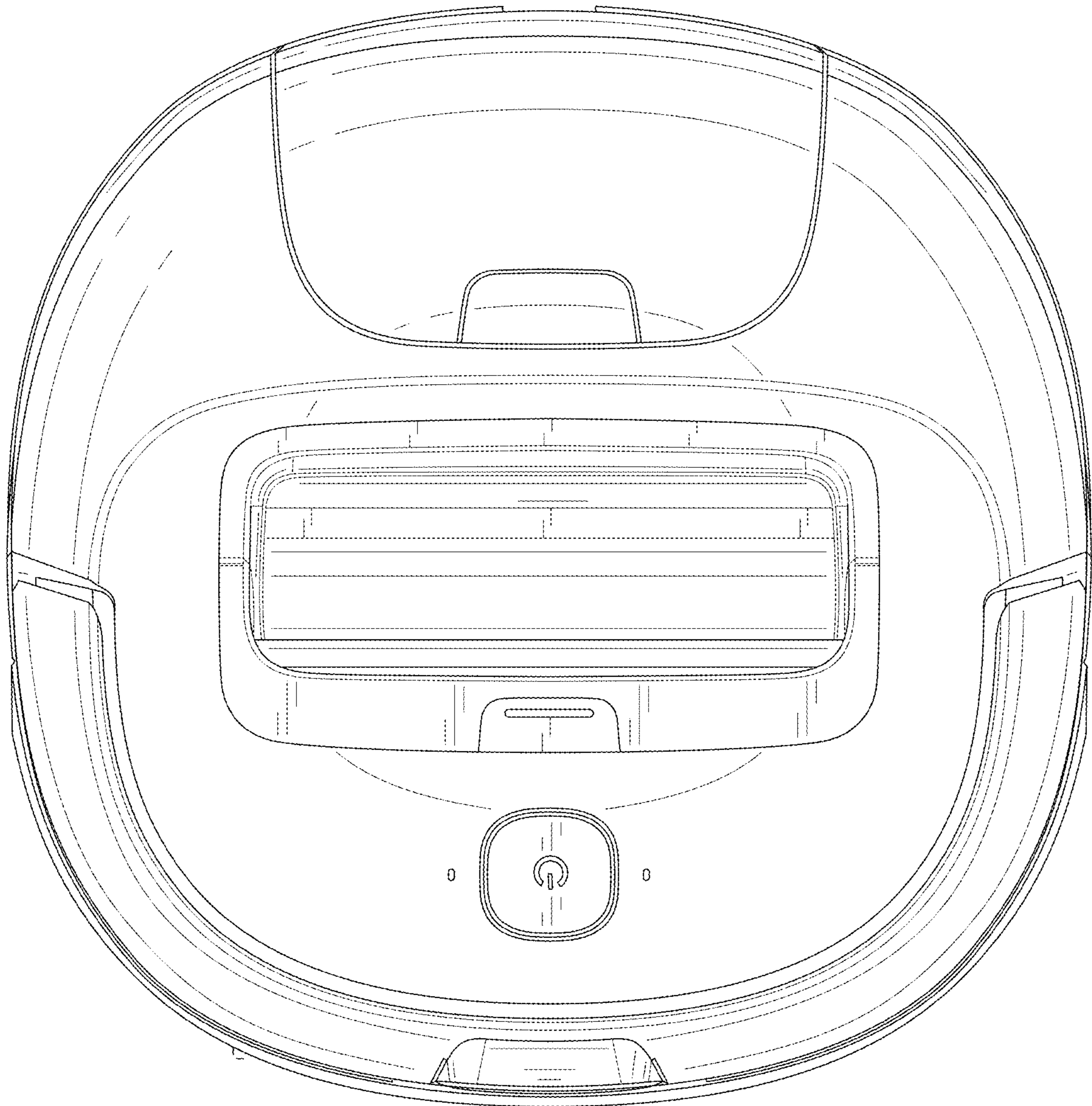


FIG. 5

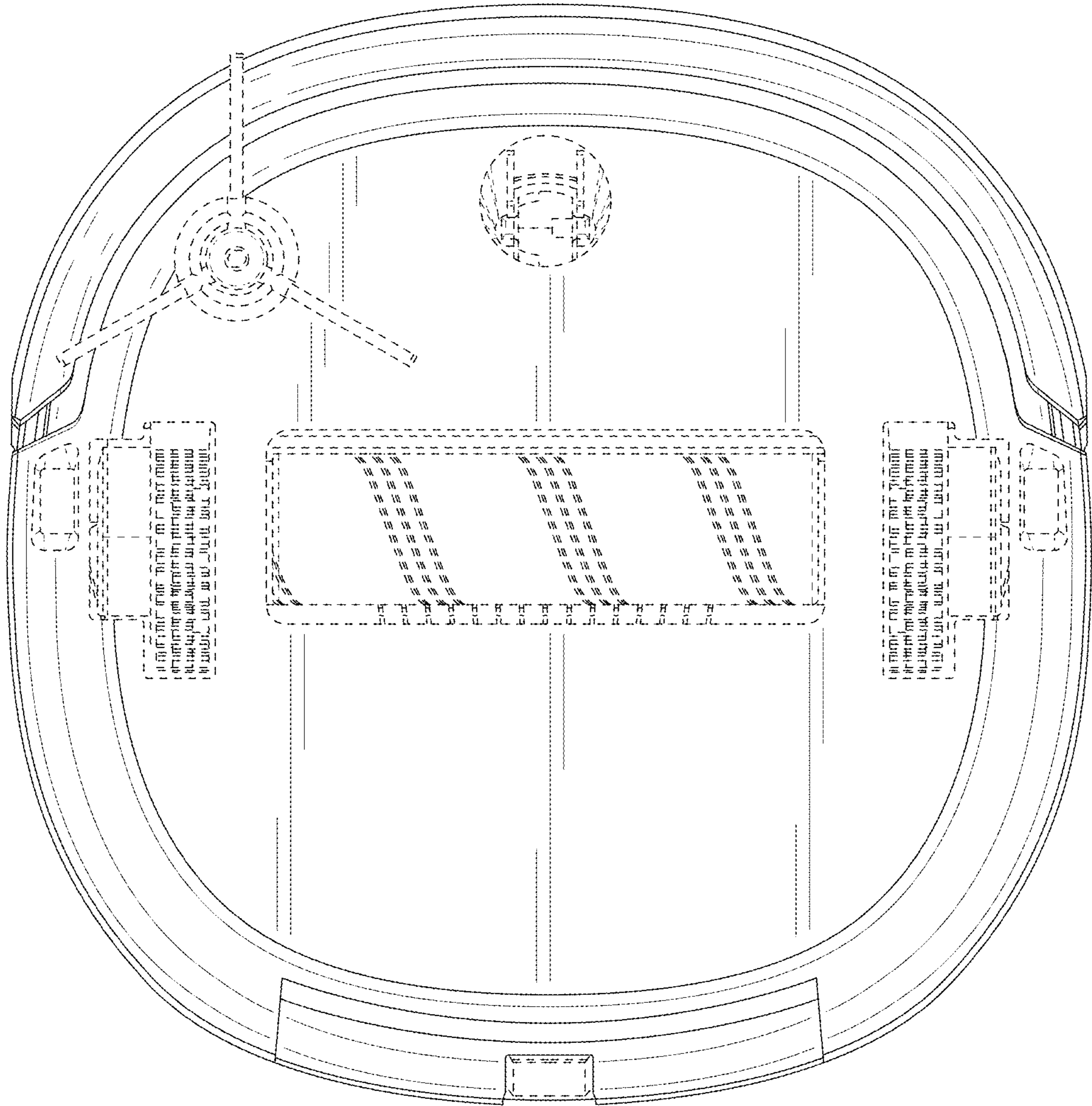


FIG. 6

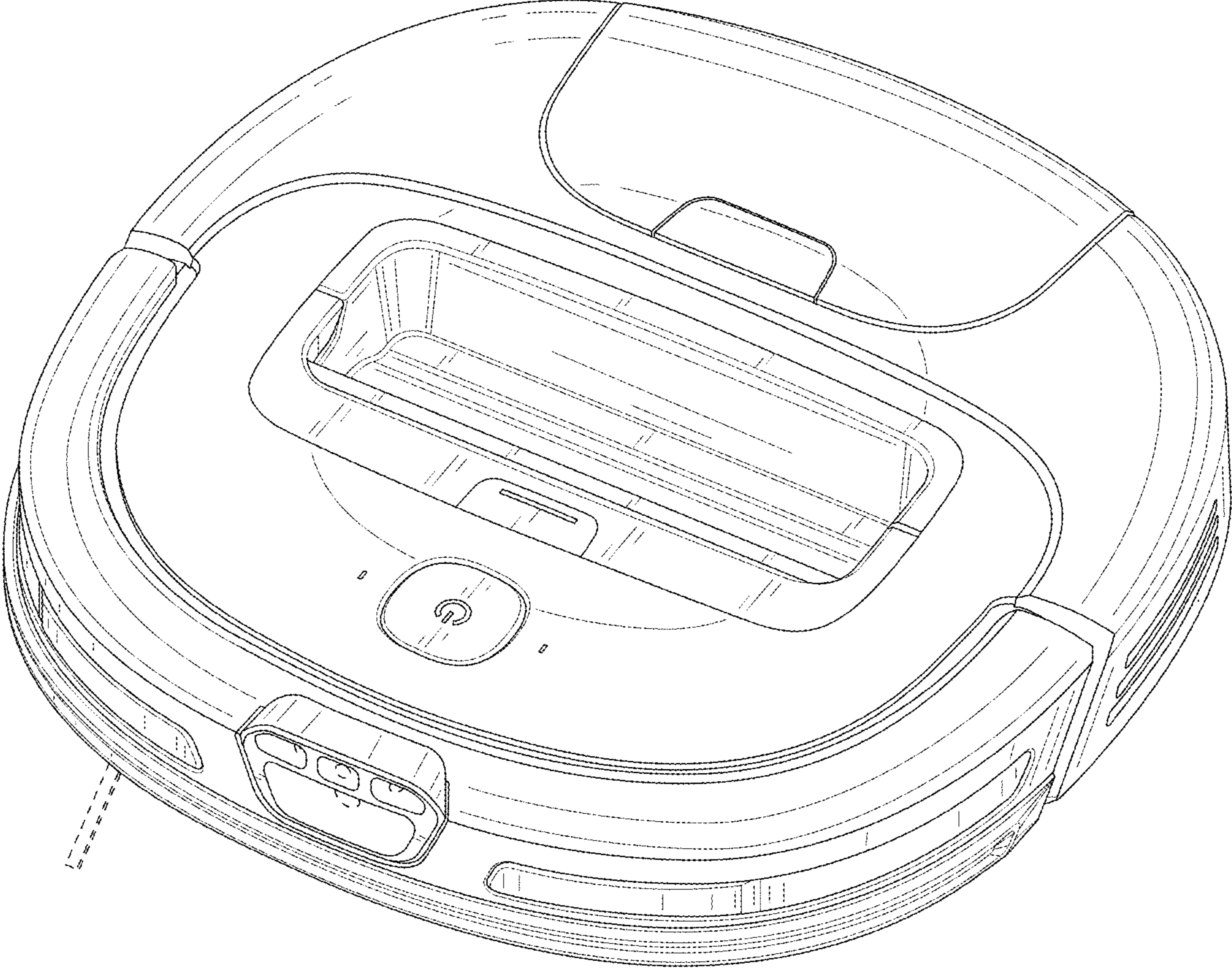


FIG. 7

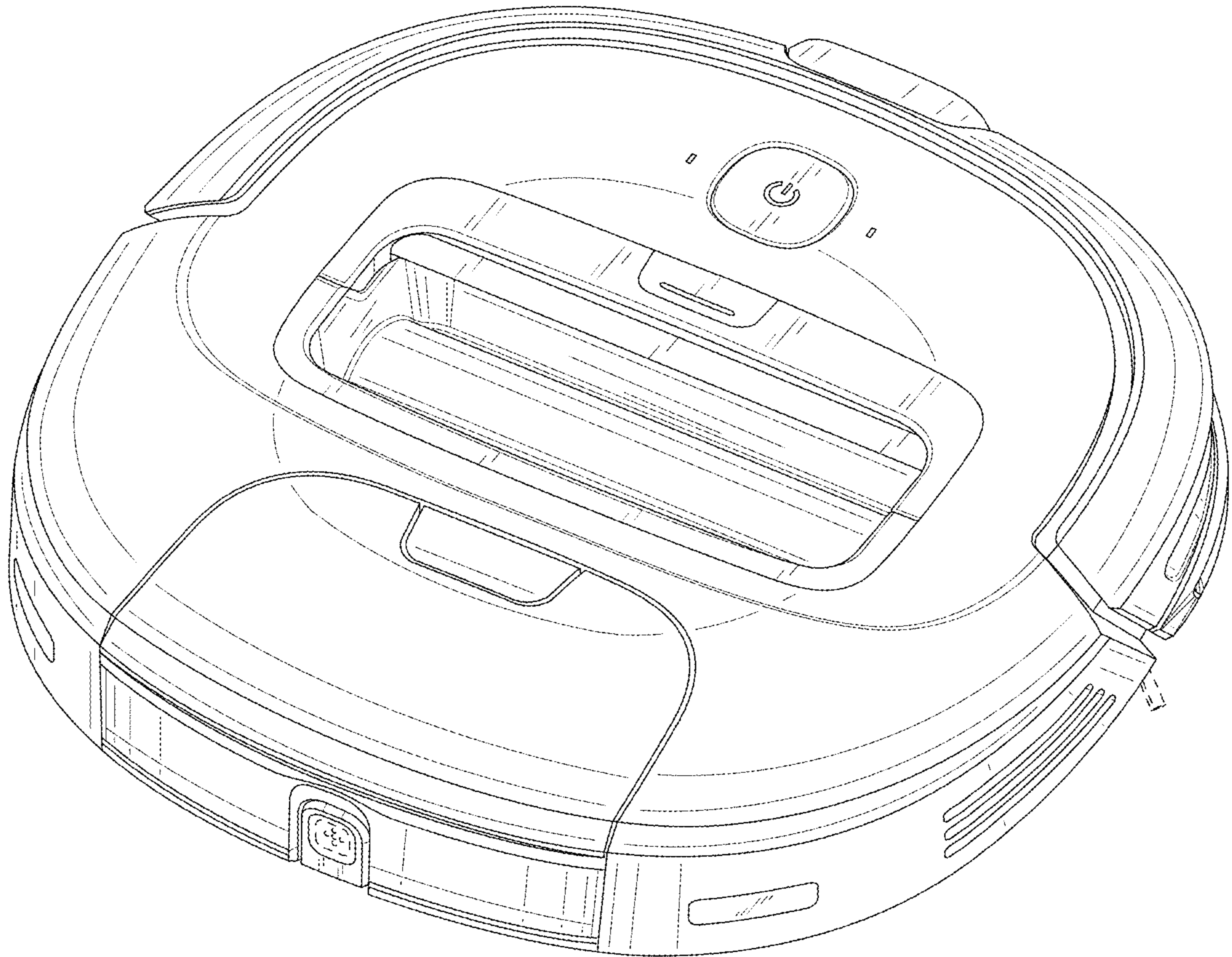


FIG. 8

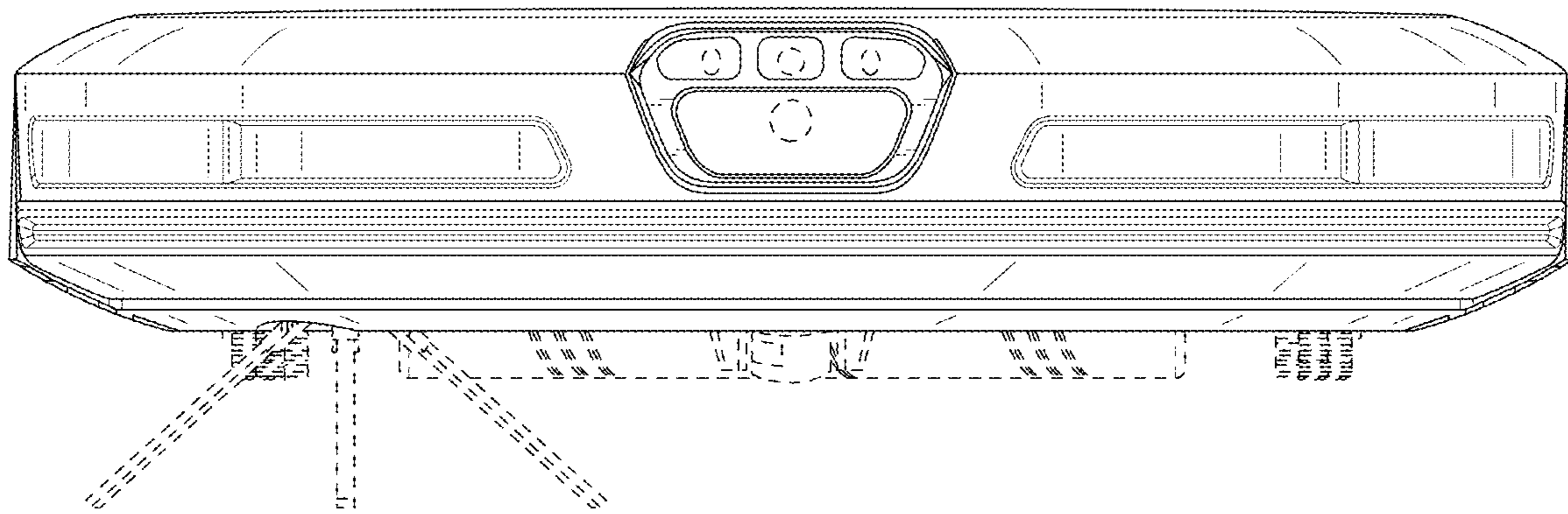


FIG. 9

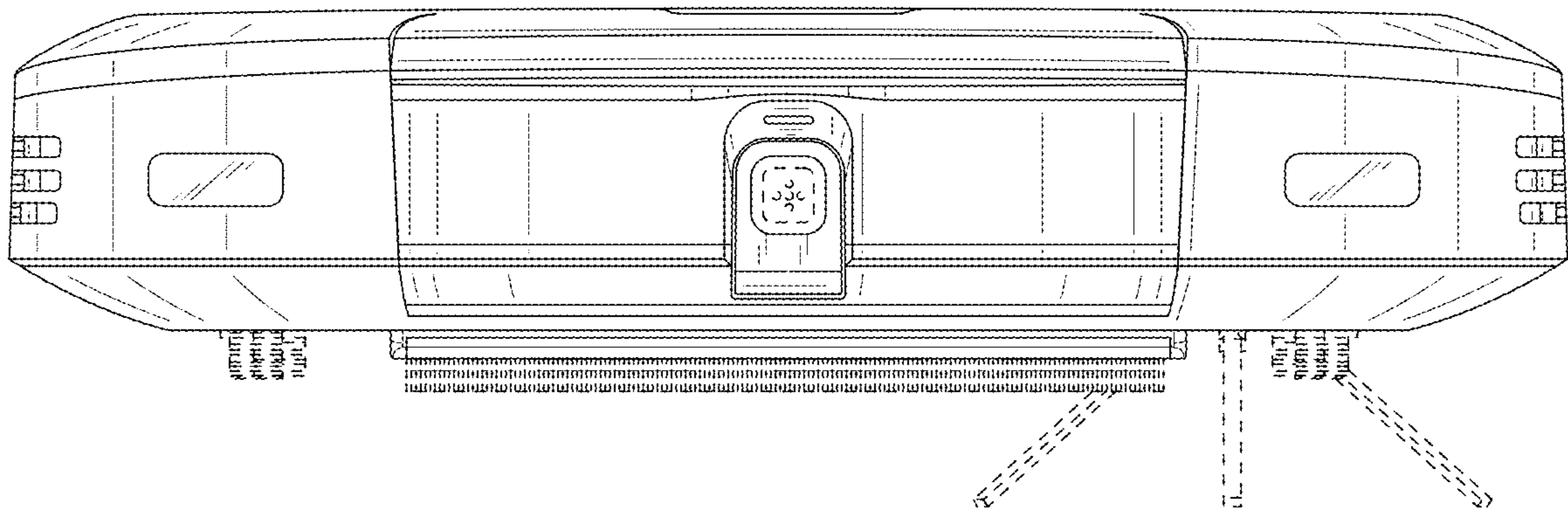


FIG. 10

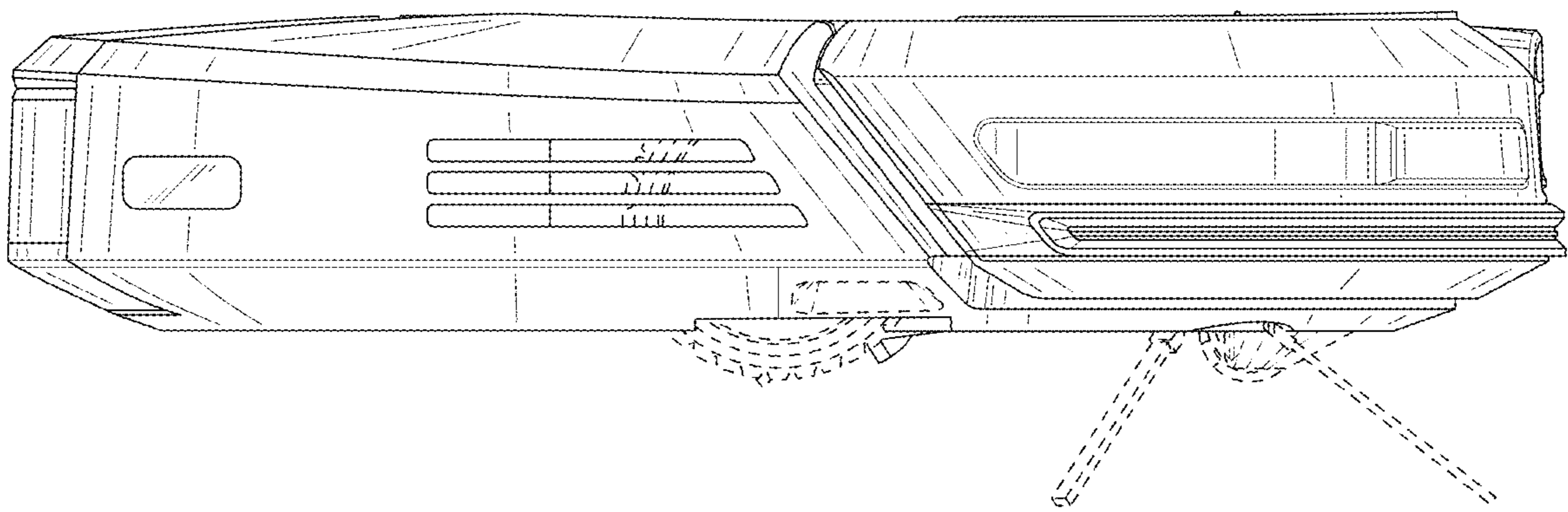


FIG. 11

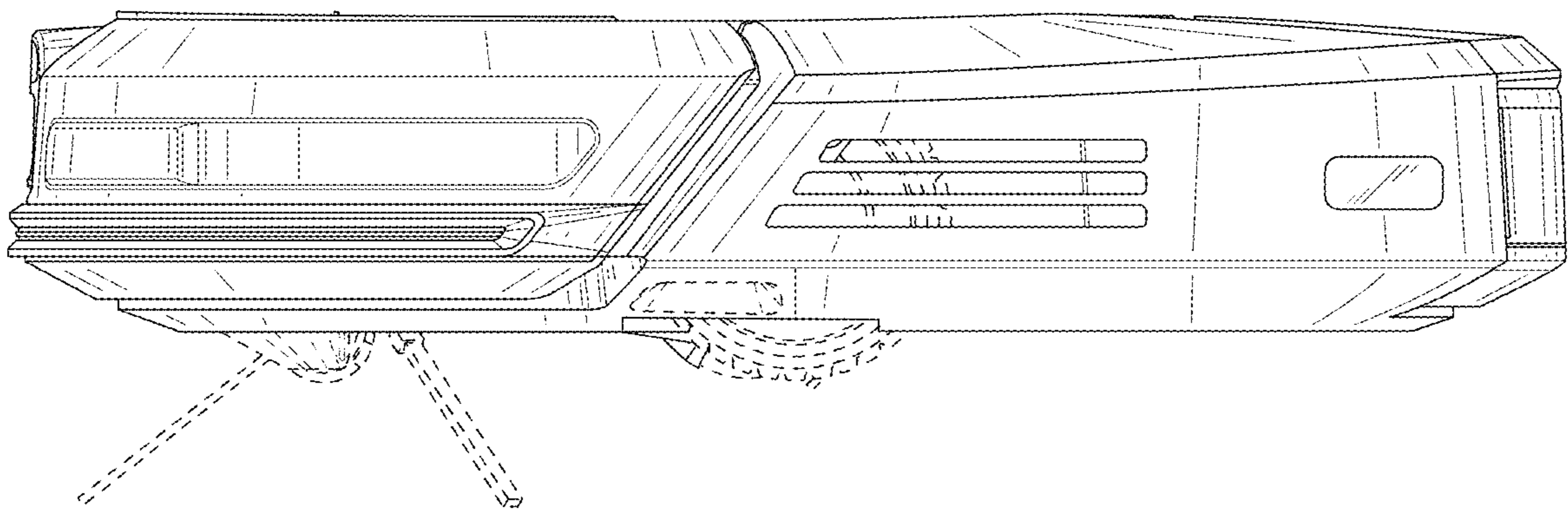


FIG. 12

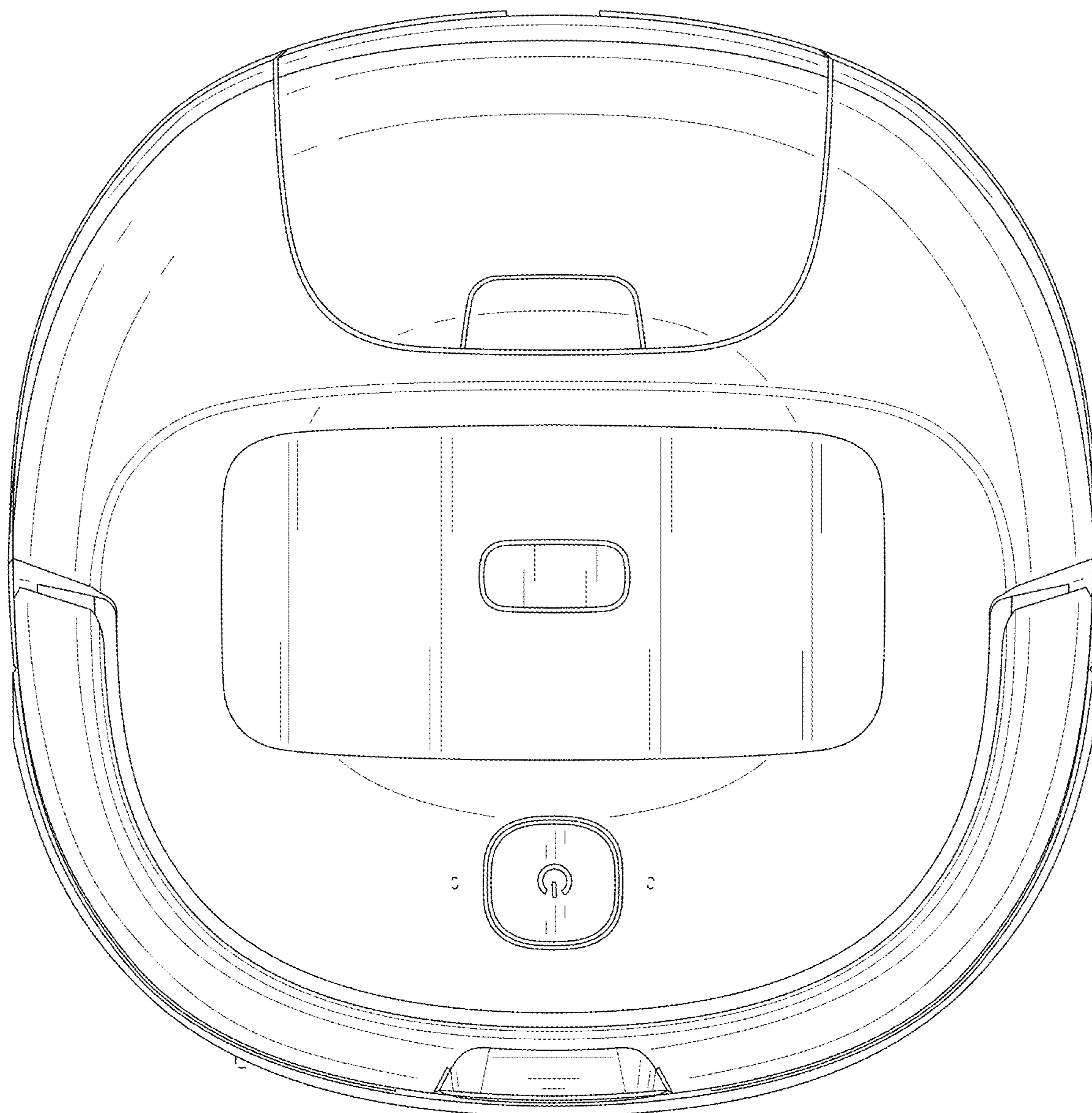


FIG. 13

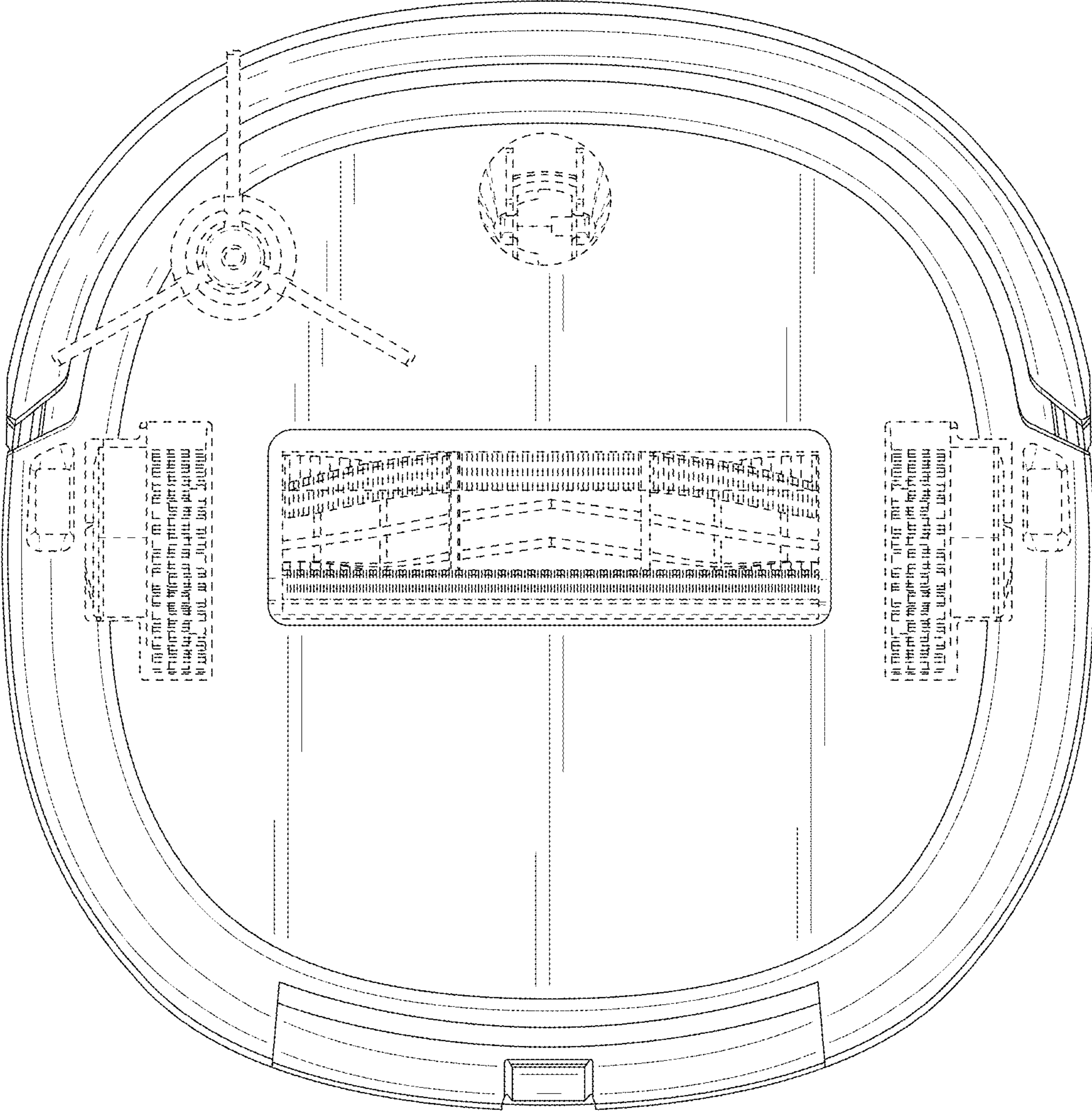


FIG. 14

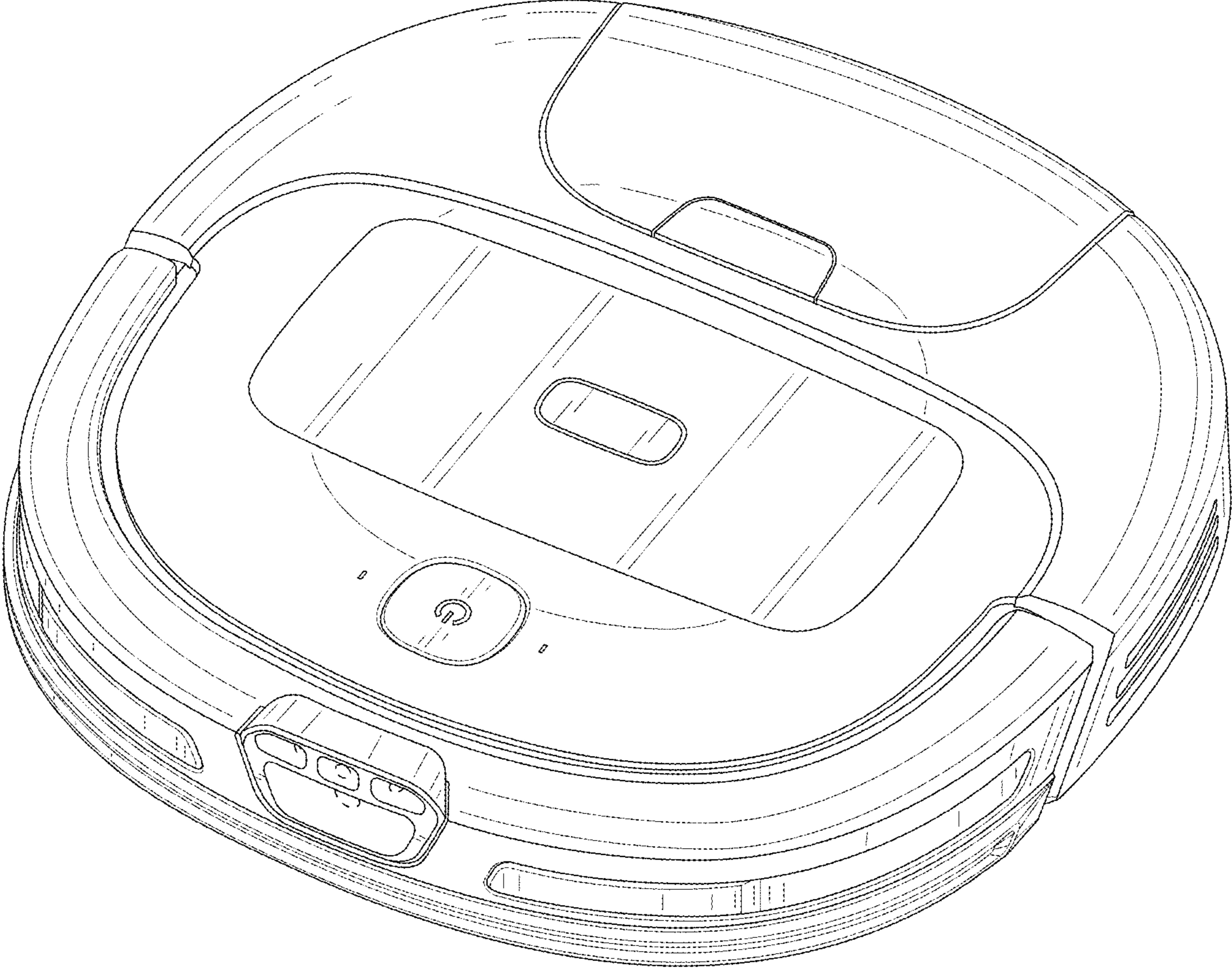


FIG. 15

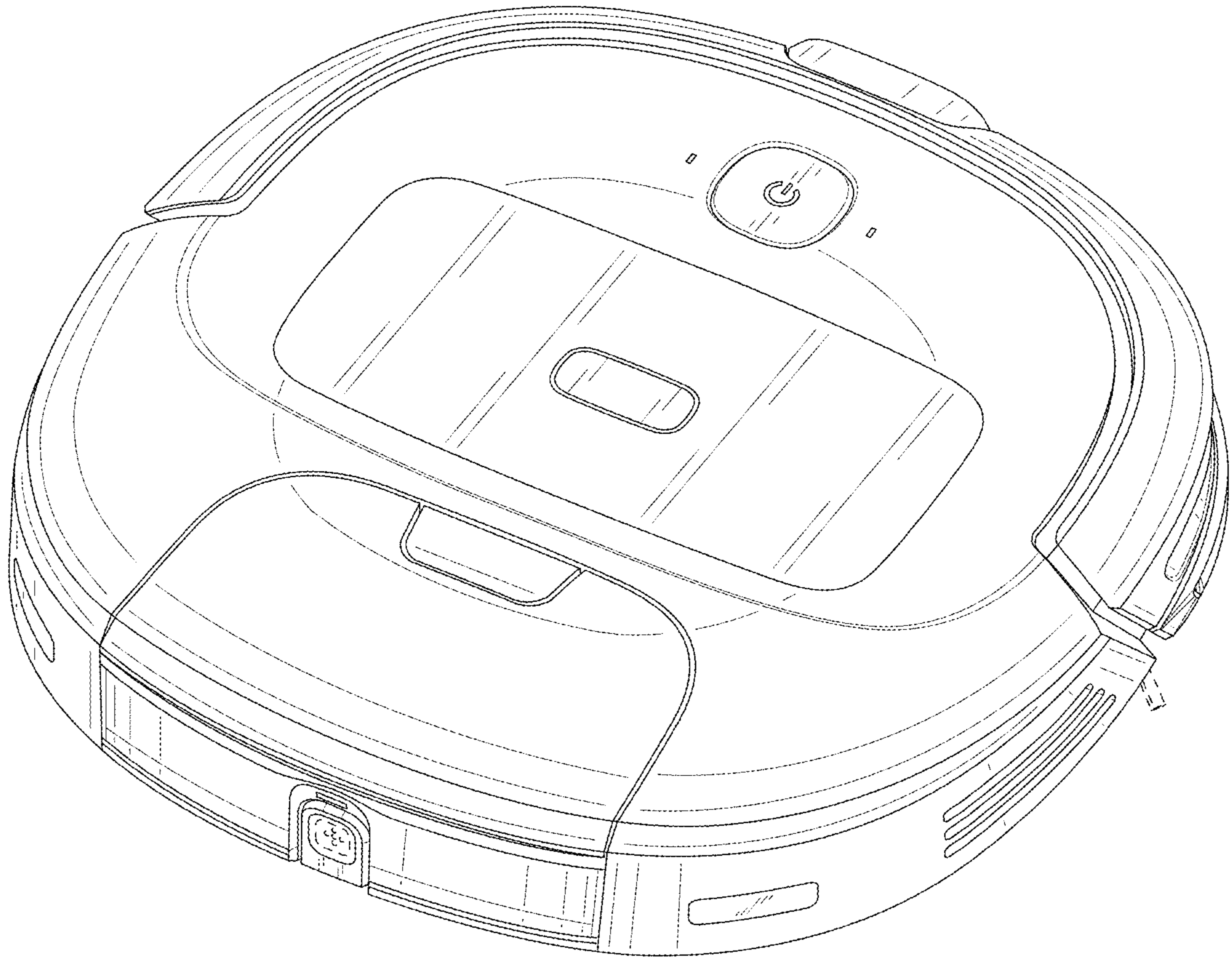


FIG. 16

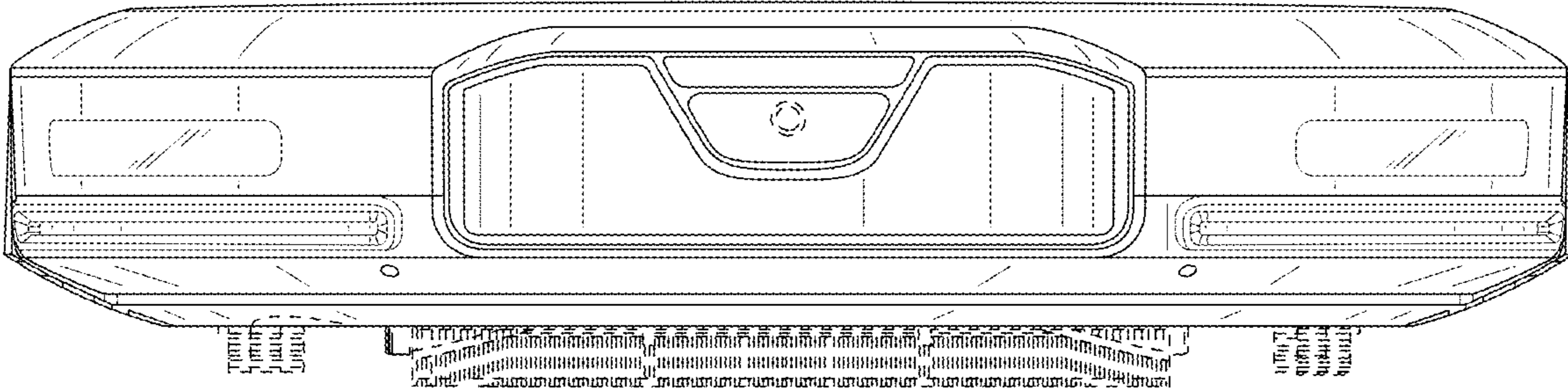


FIG. 17

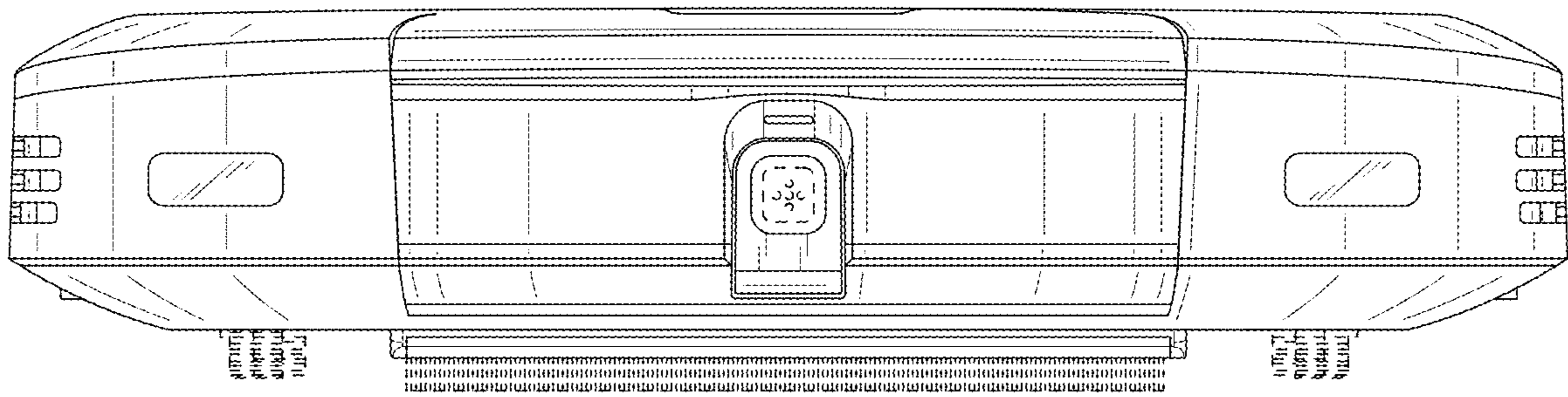


FIG. 18

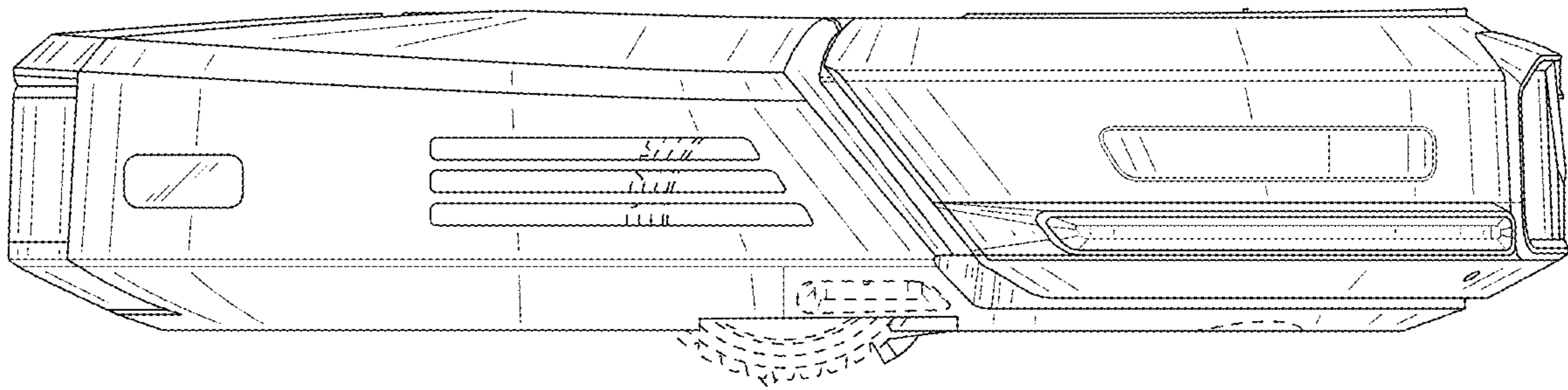


FIG. 19

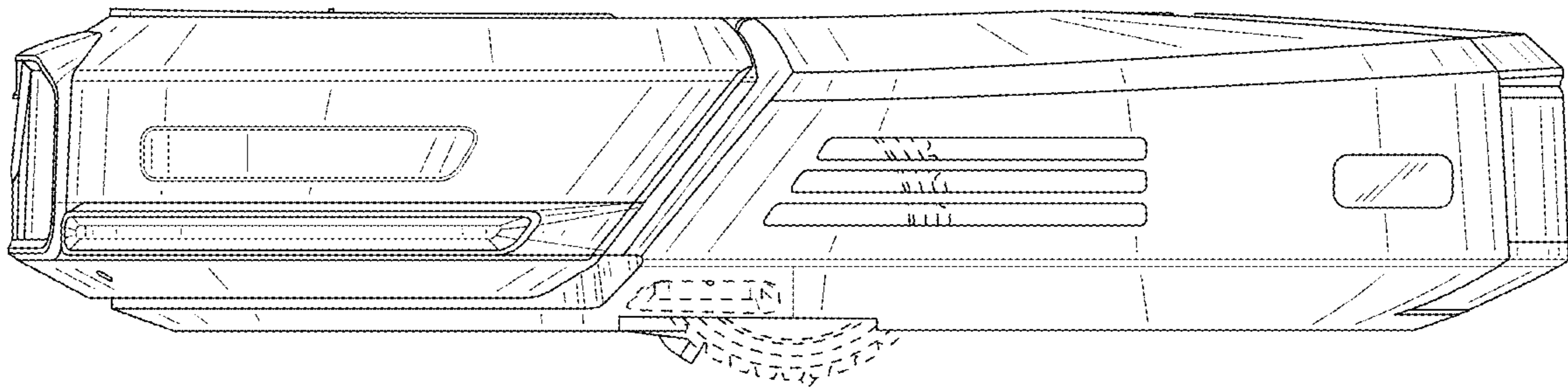


FIG. 20

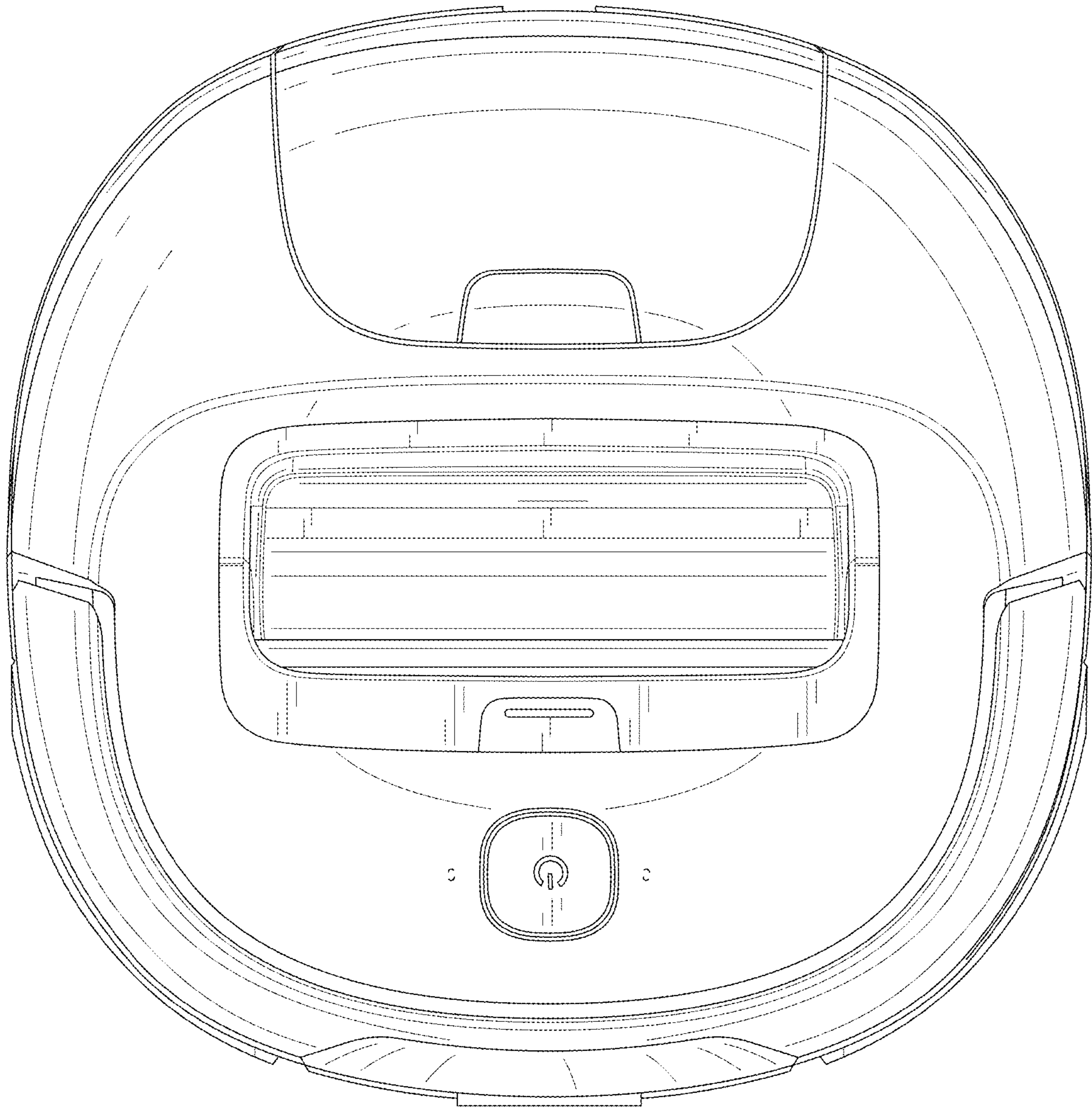


FIG. 21

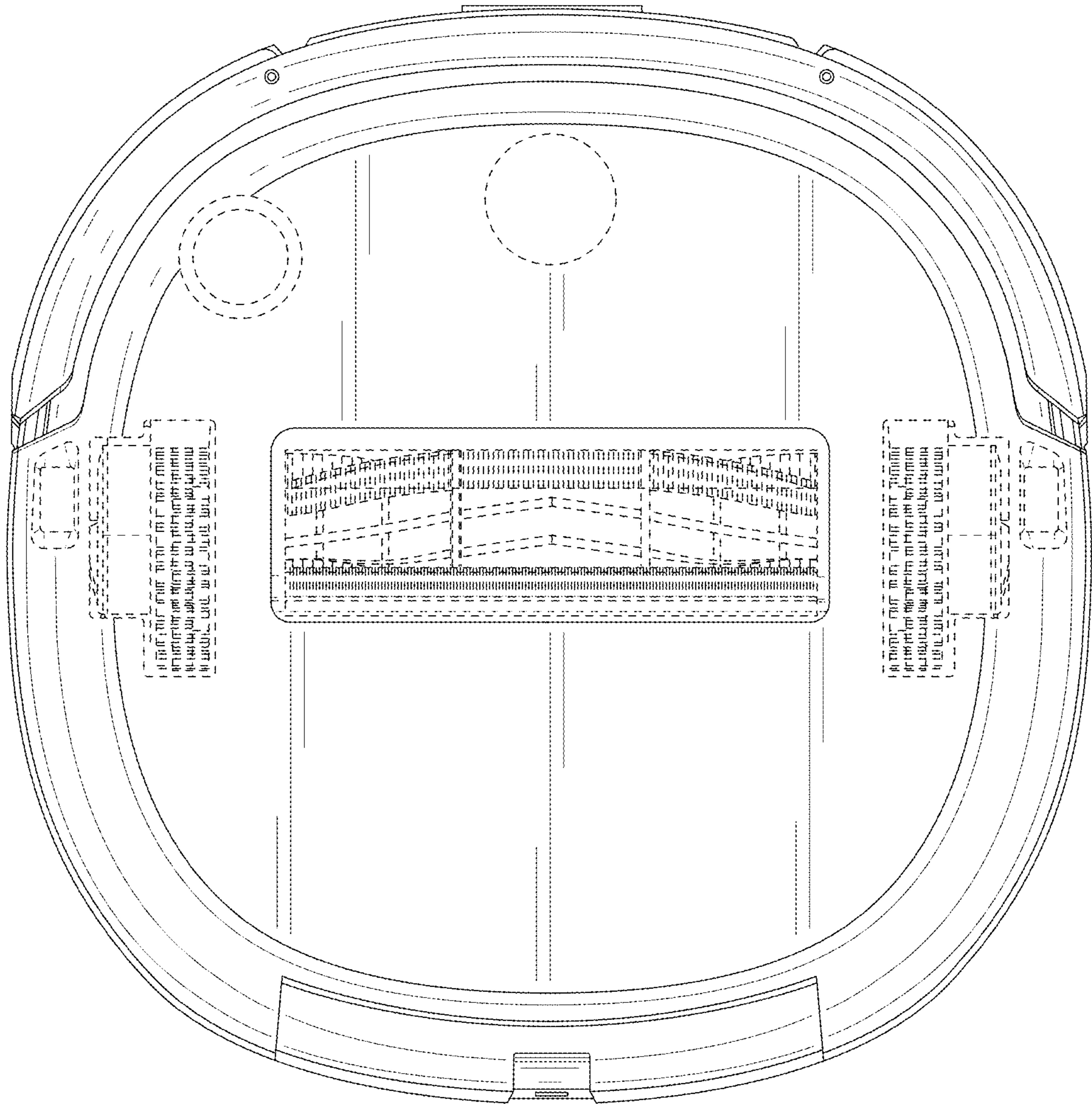


FIG. 22

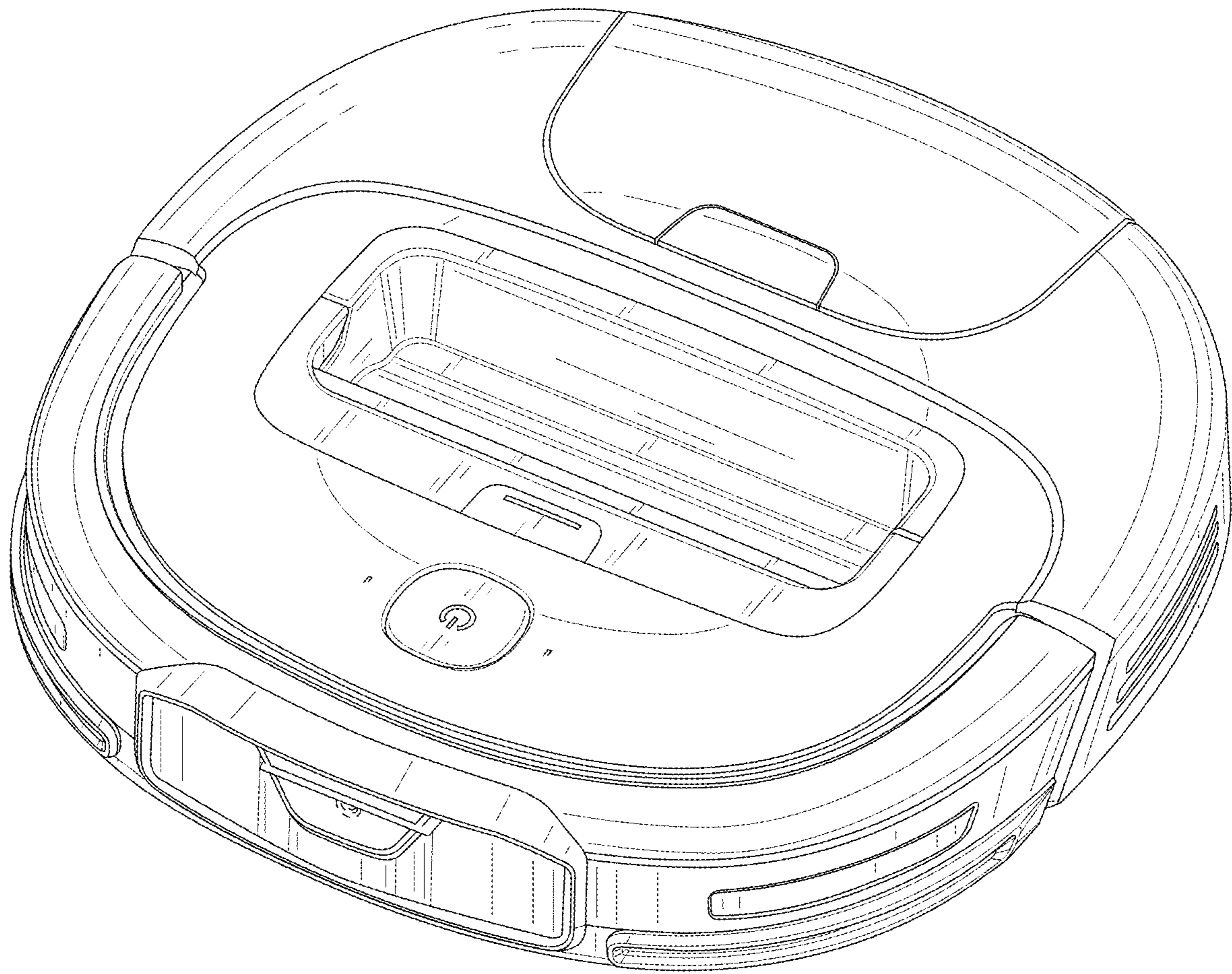


FIG. 23

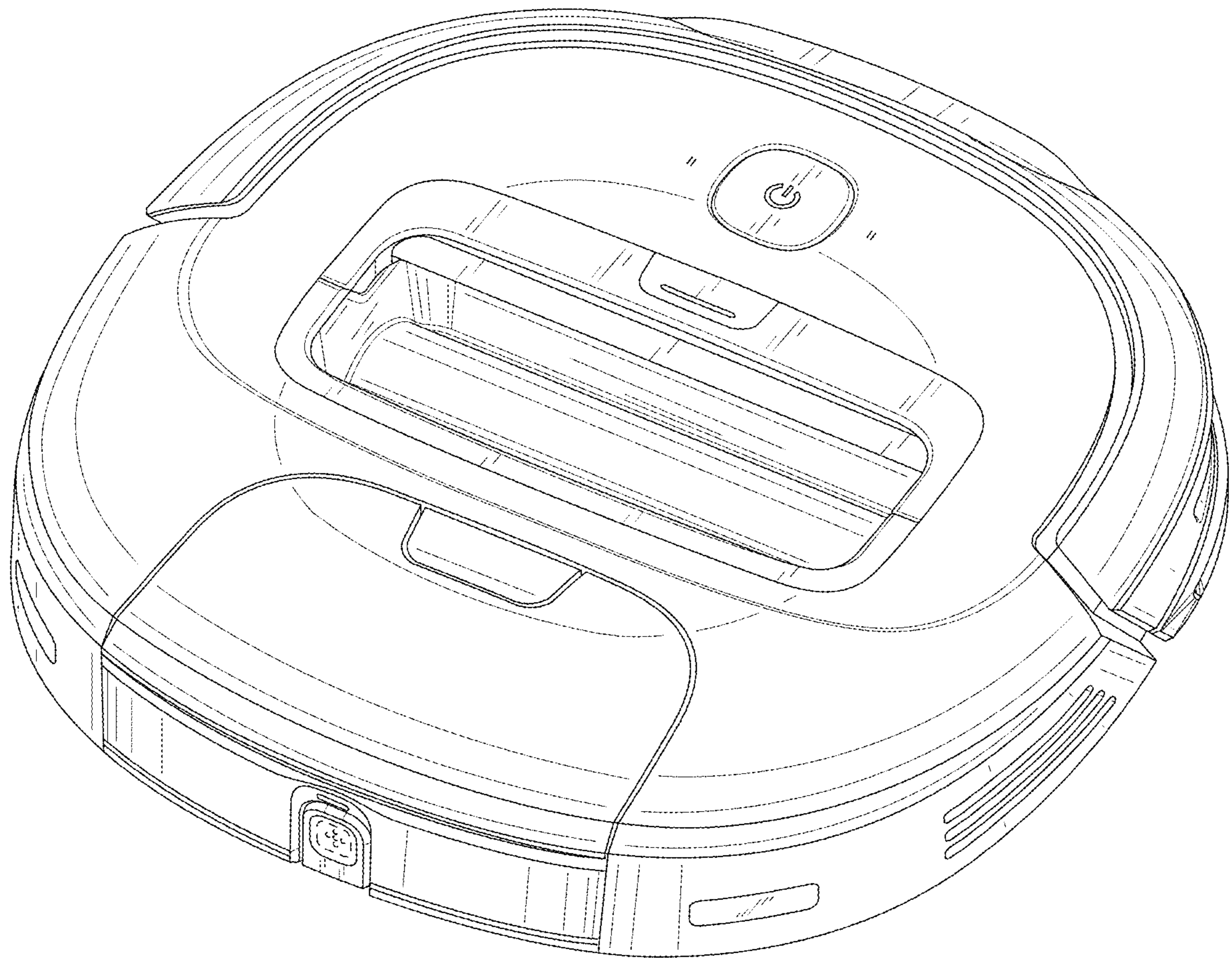


FIG. 24