



US00D866889S

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

(10) **Patent No.:** **US D866,889 S**

(45) **Date of Patent:** **\*\* Nov. 12, 2019**

(54) **VACUUM CLEANER**

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(73) Assignee: **Panasonic Intellectual Property Management Co., Ltd., Osaka (JP)**

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

(21) Appl. No.: **29/645,727**

(22) Filed: **Apr. 27, 2018**

(30) **Foreign Application Priority Data**

Nov. 2, 2017 (JP) ..... 2017-024521

(51) **LOC (12) Cl.** ..... **15-05**

(52) **U.S. Cl.**  
USPC ..... **D32/31**

(58) **Field of Classification Search**  
USPC ..... D32/21, 31; D13/108–109; 15/319  
CPC ..... E04H 4/1654; A47L 2201/00; A47L 2201/02; A47L 2201/04; A47L 2201/06; A47L 9/0461; A47L 9/2805; B25J 9/1694  
See application file for complete search history.

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(Continued)

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(57) **CLAIM**

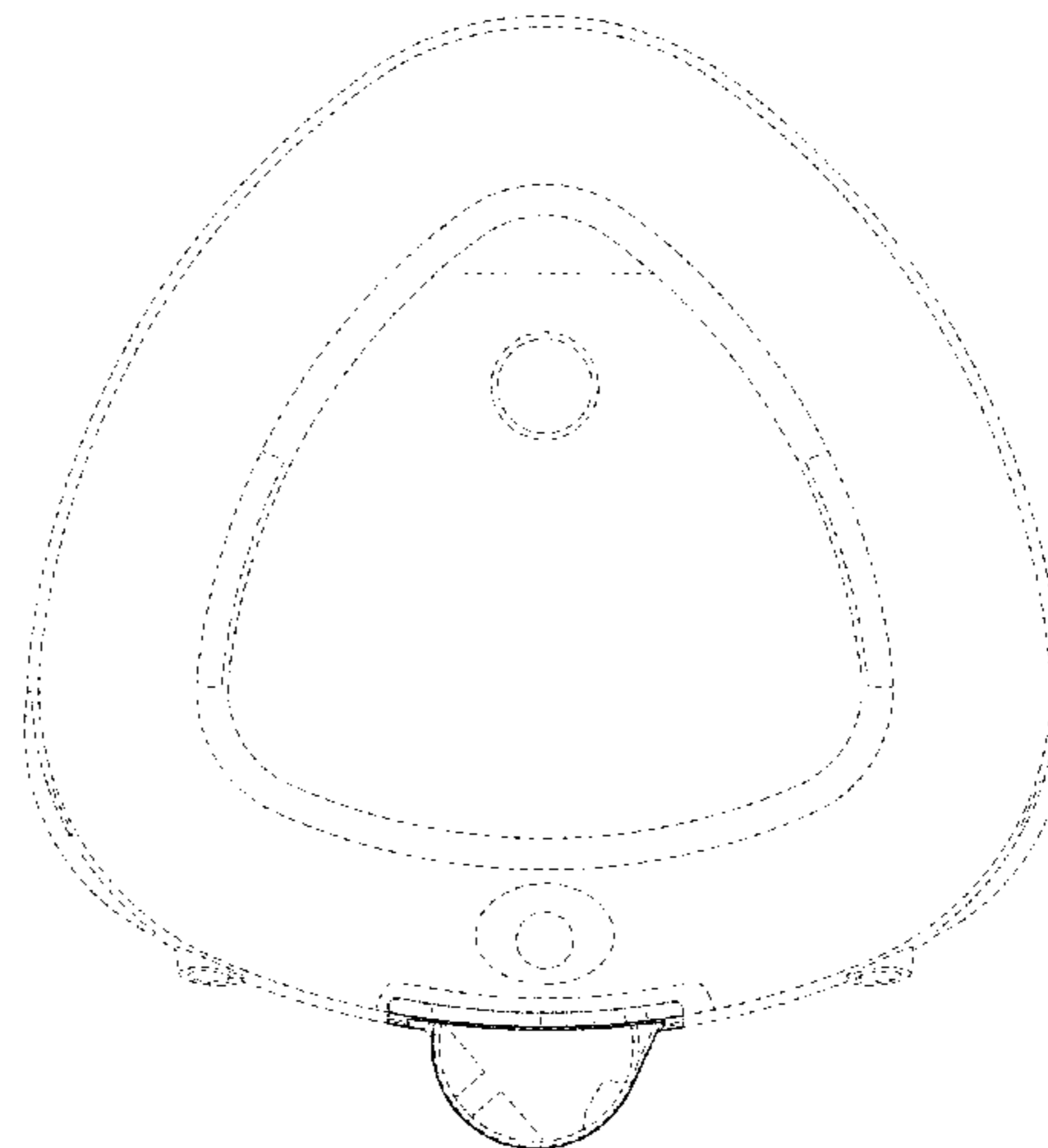
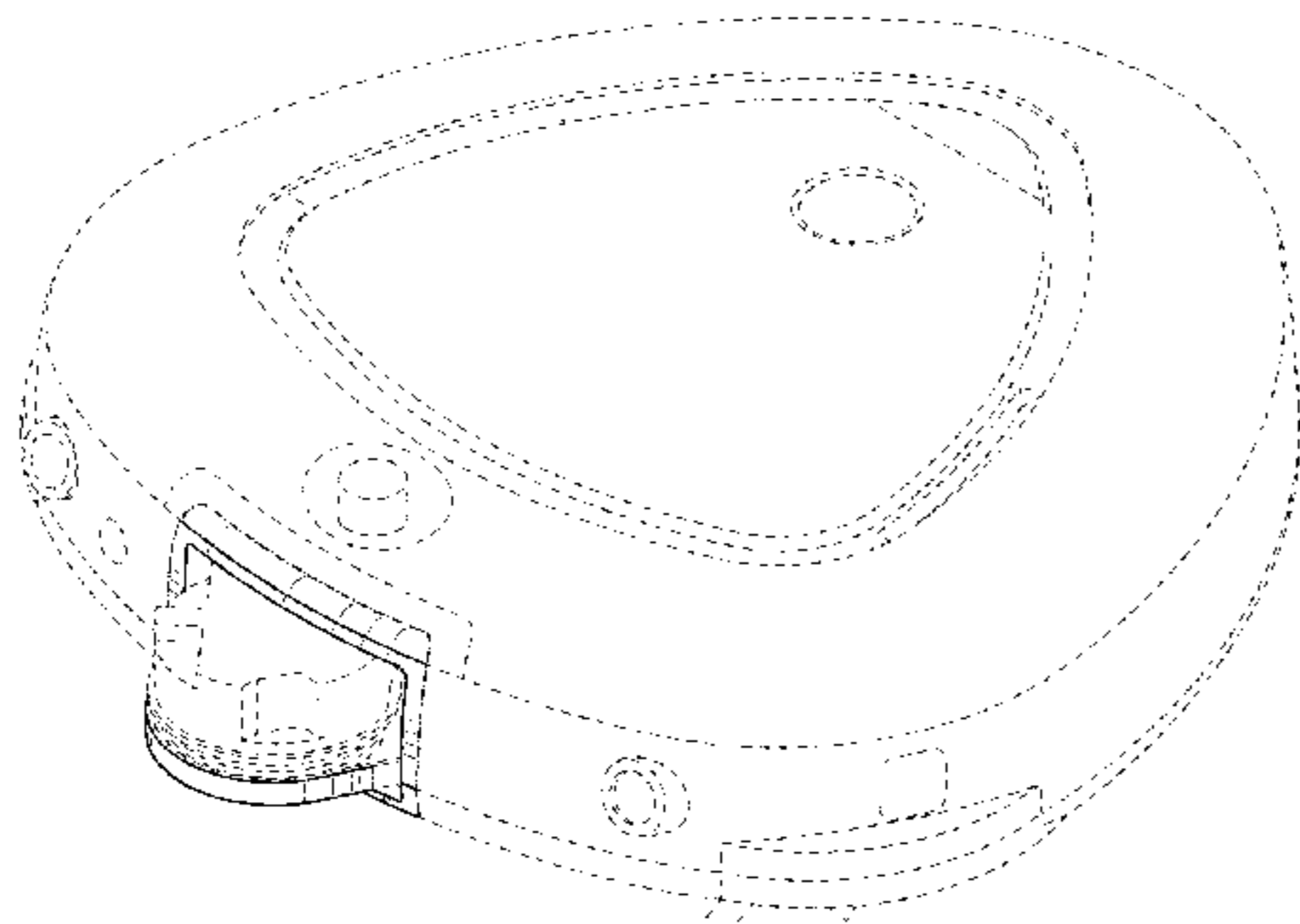
We claim the ornamental design for a vacuum cleaner, as shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of a vacuum cleaner showing our new design;  
FIG. 2 is a front view thereof;  
FIG. 3 is a rear view thereof;  
FIG. 4 is a first side view thereof;  
FIG. 5 is a second side view thereof;  
FIG. 6 is a top view thereof;  
FIG. 7 is a bottom view thereof;  
FIG. 8 is a perspective view of the vacuum cleaner with the sensor being positioned inside the body; and,  
FIG. 9 is a top view thereof with the sensor being positioned inside the body.

The broken lines in the drawings represent portions of the vacuum cleaner that form no part of the claimed design. Additionally, the dash-dot-dashed lines in the drawings define the boundaries of the claimed design.

**1 Claim, 9 Drawing Sheets**



(56)

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FIG. 1

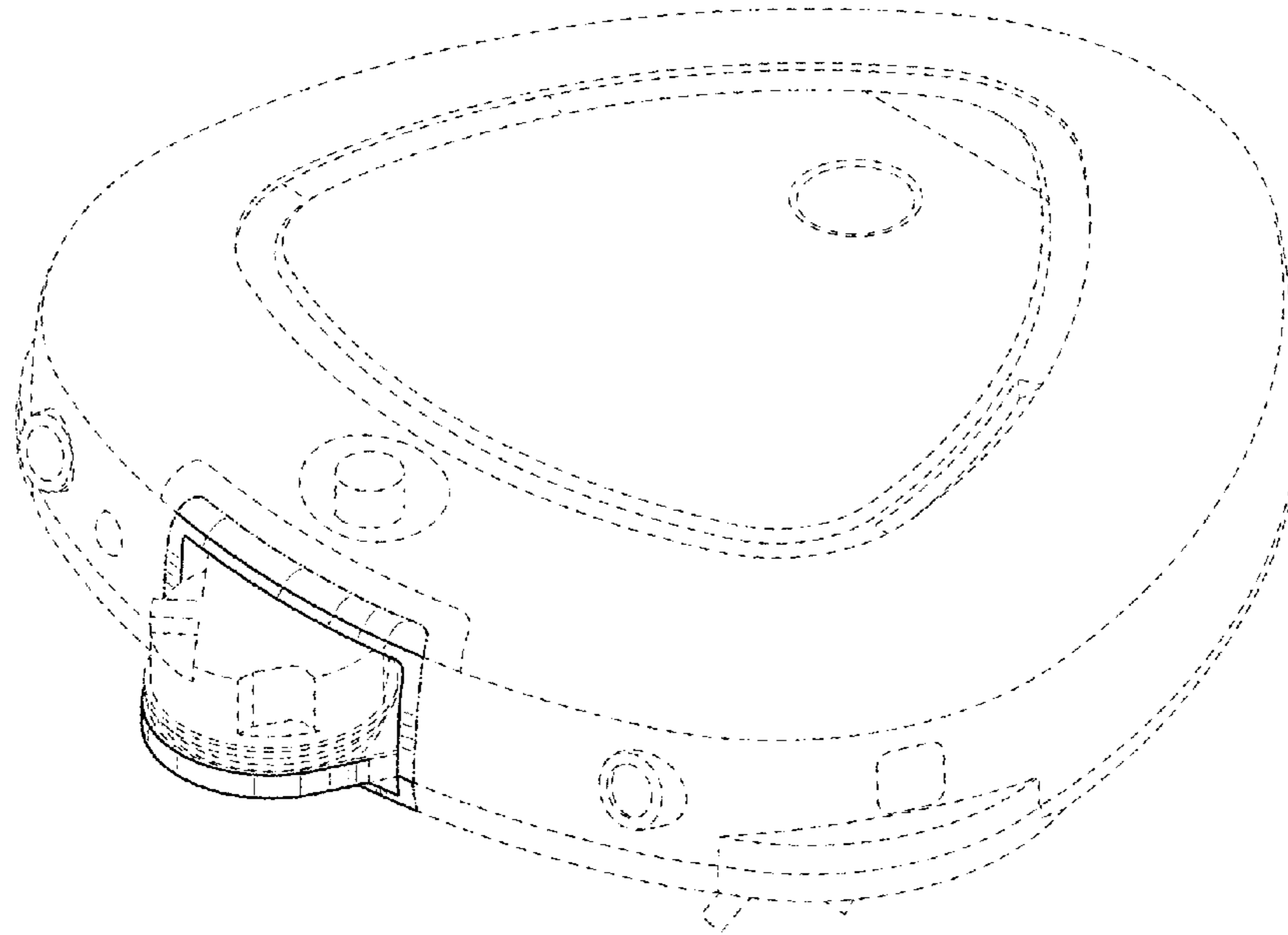


FIG. 2

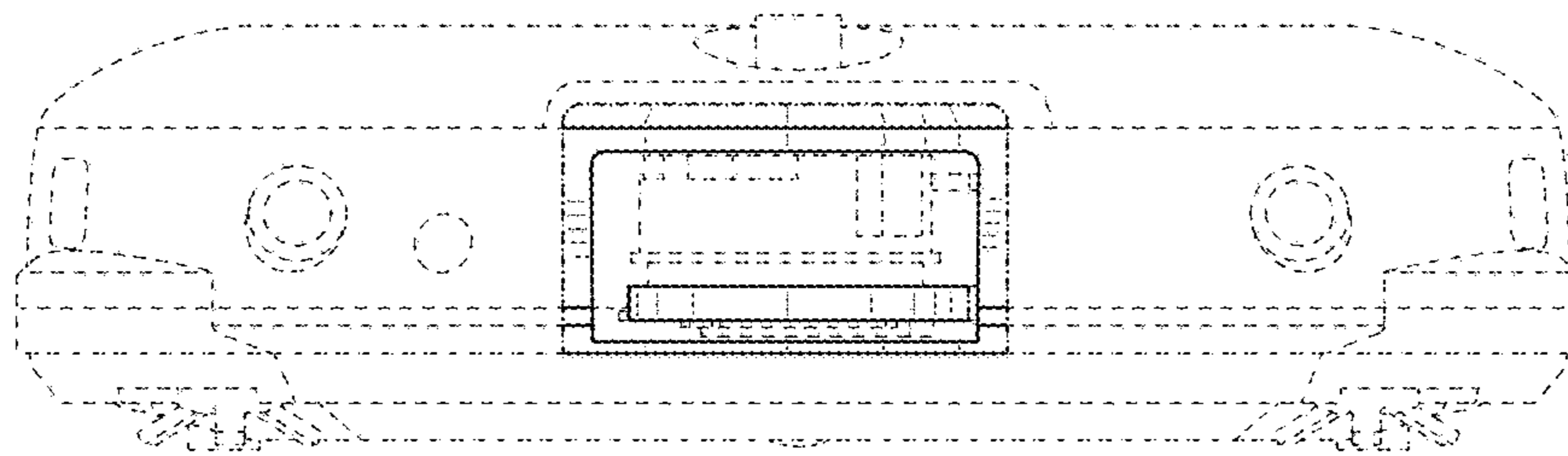


FIG. 3

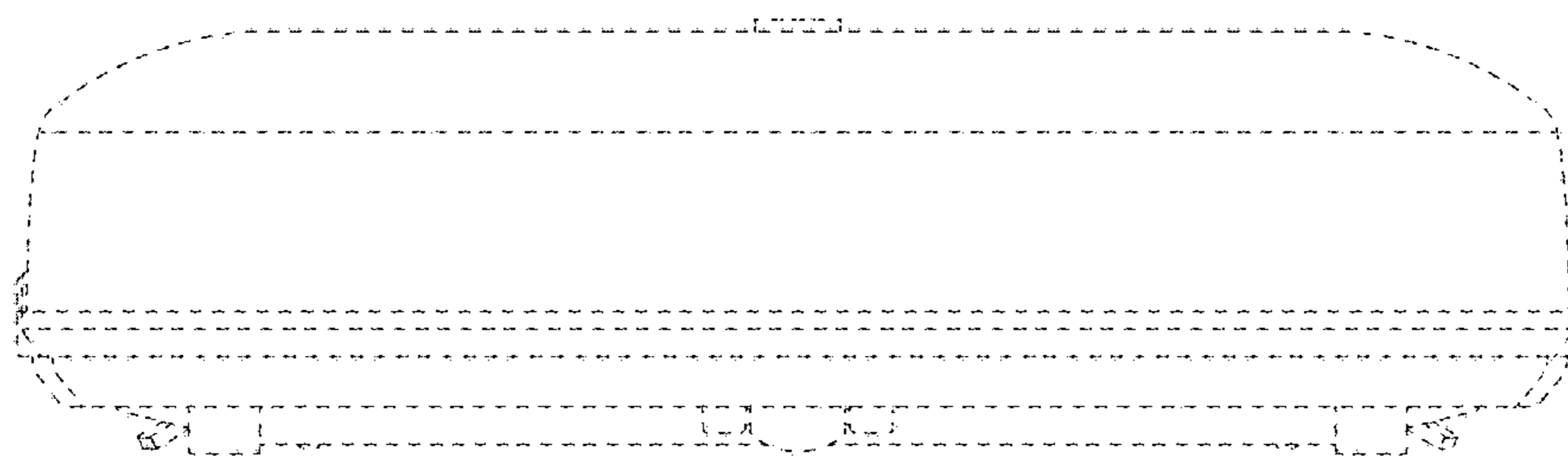


FIG. 4

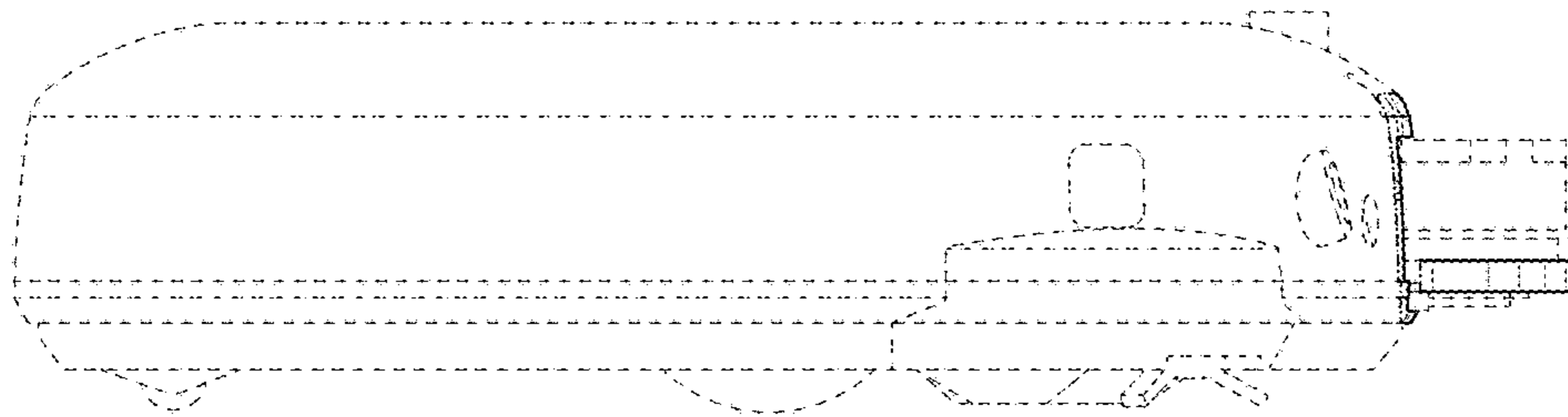


FIG. 5

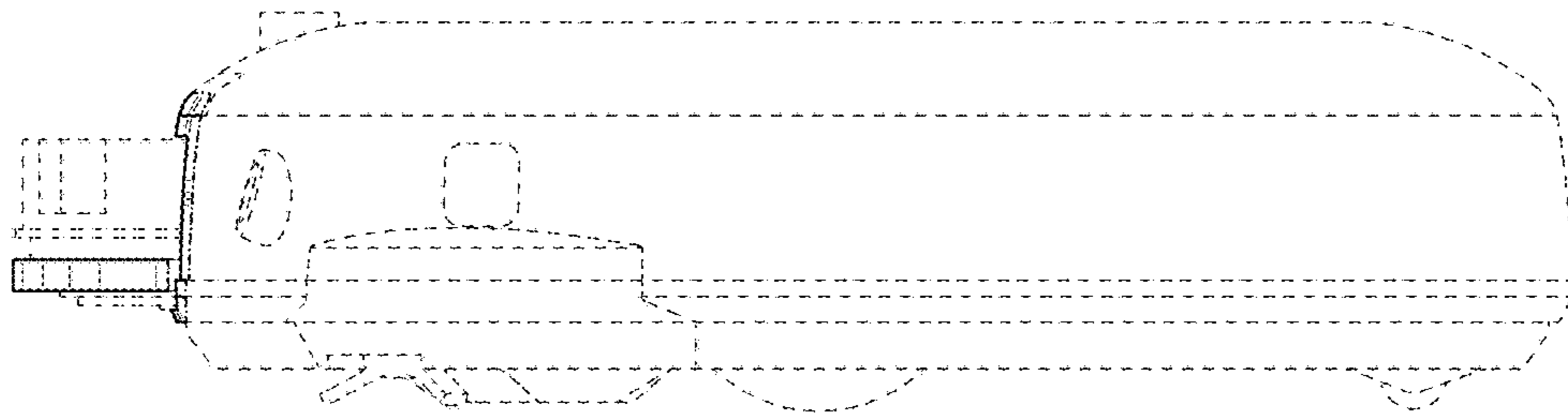


FIG. 6

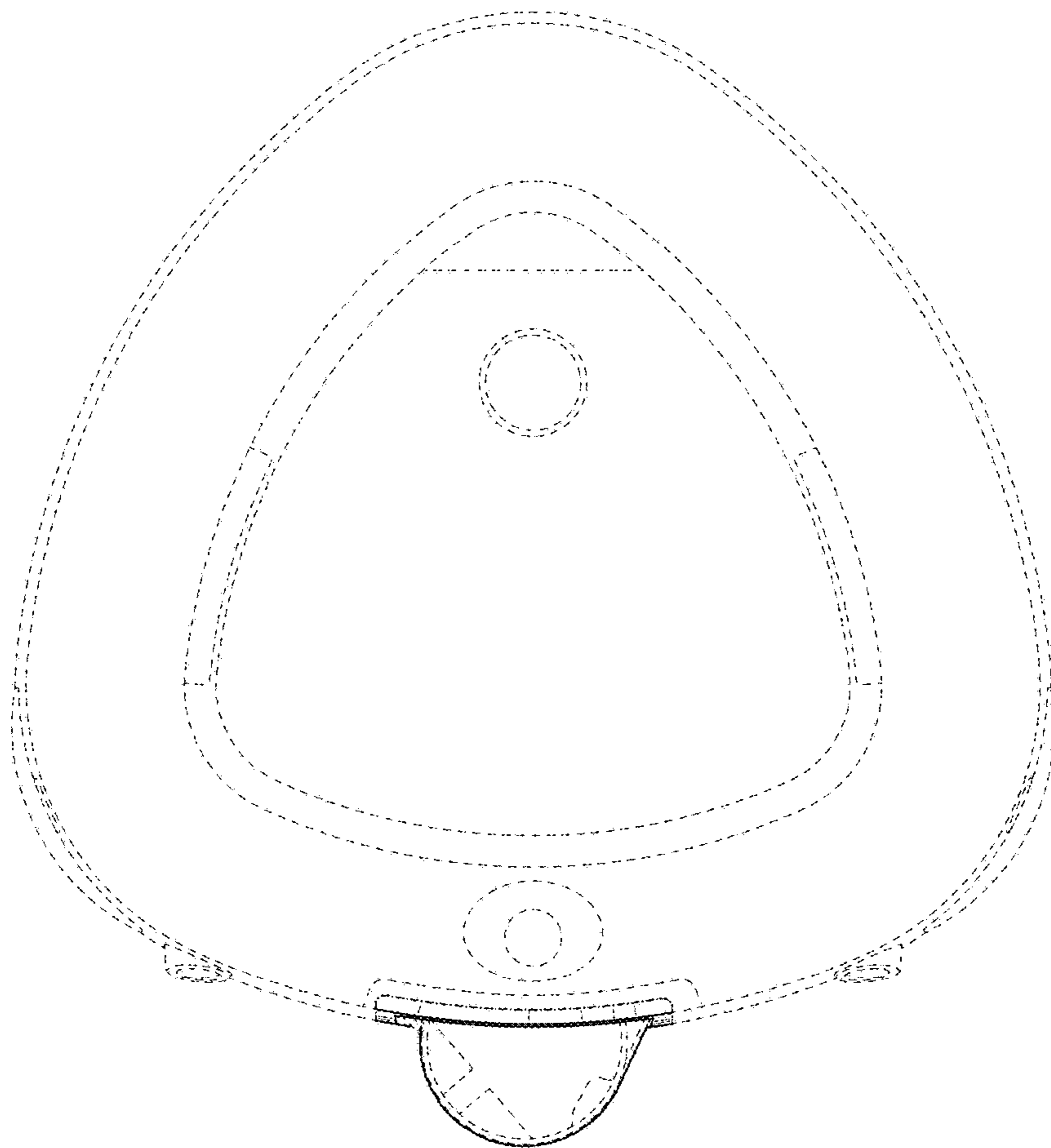




FIG. 7

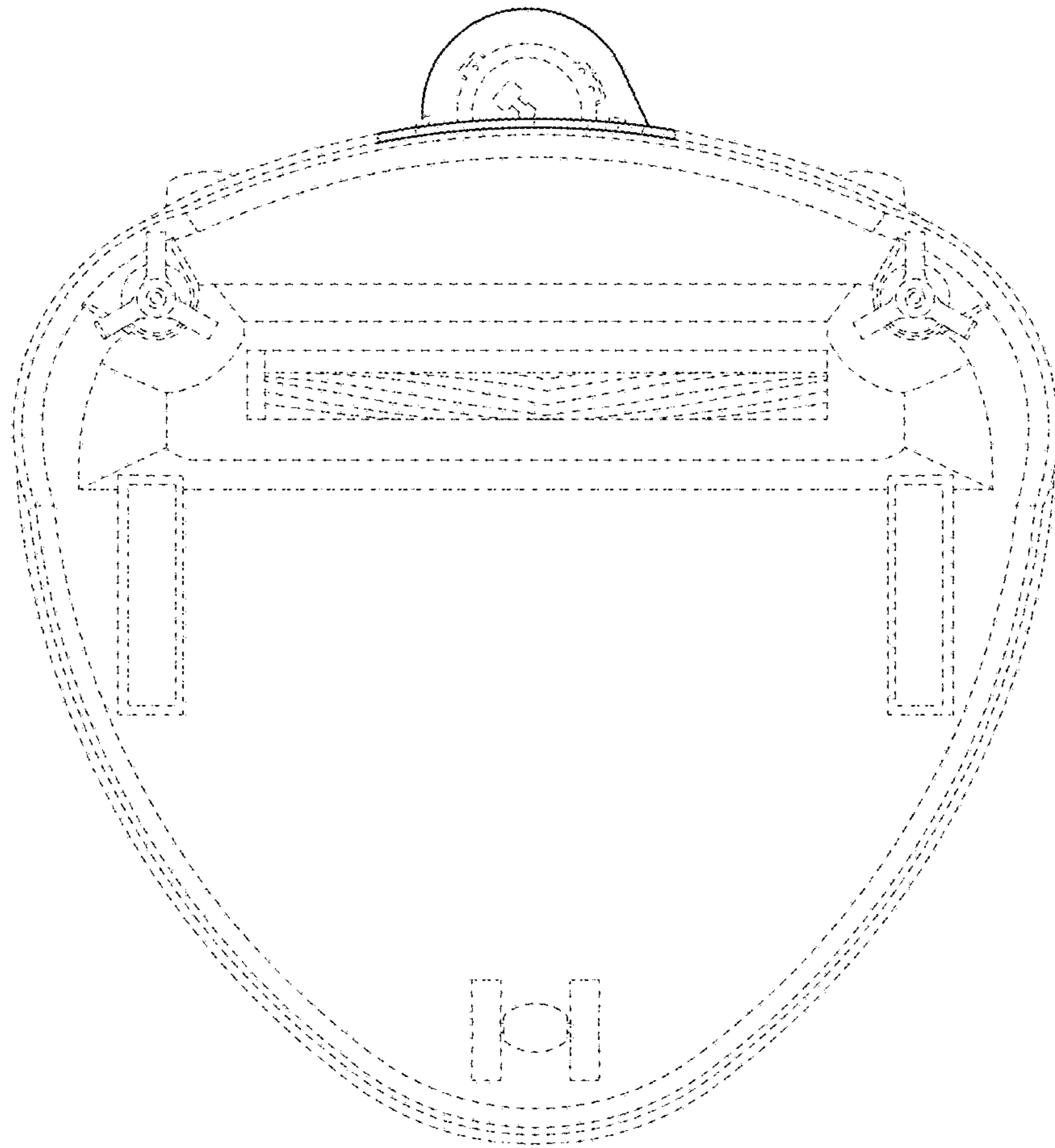


FIG. 8

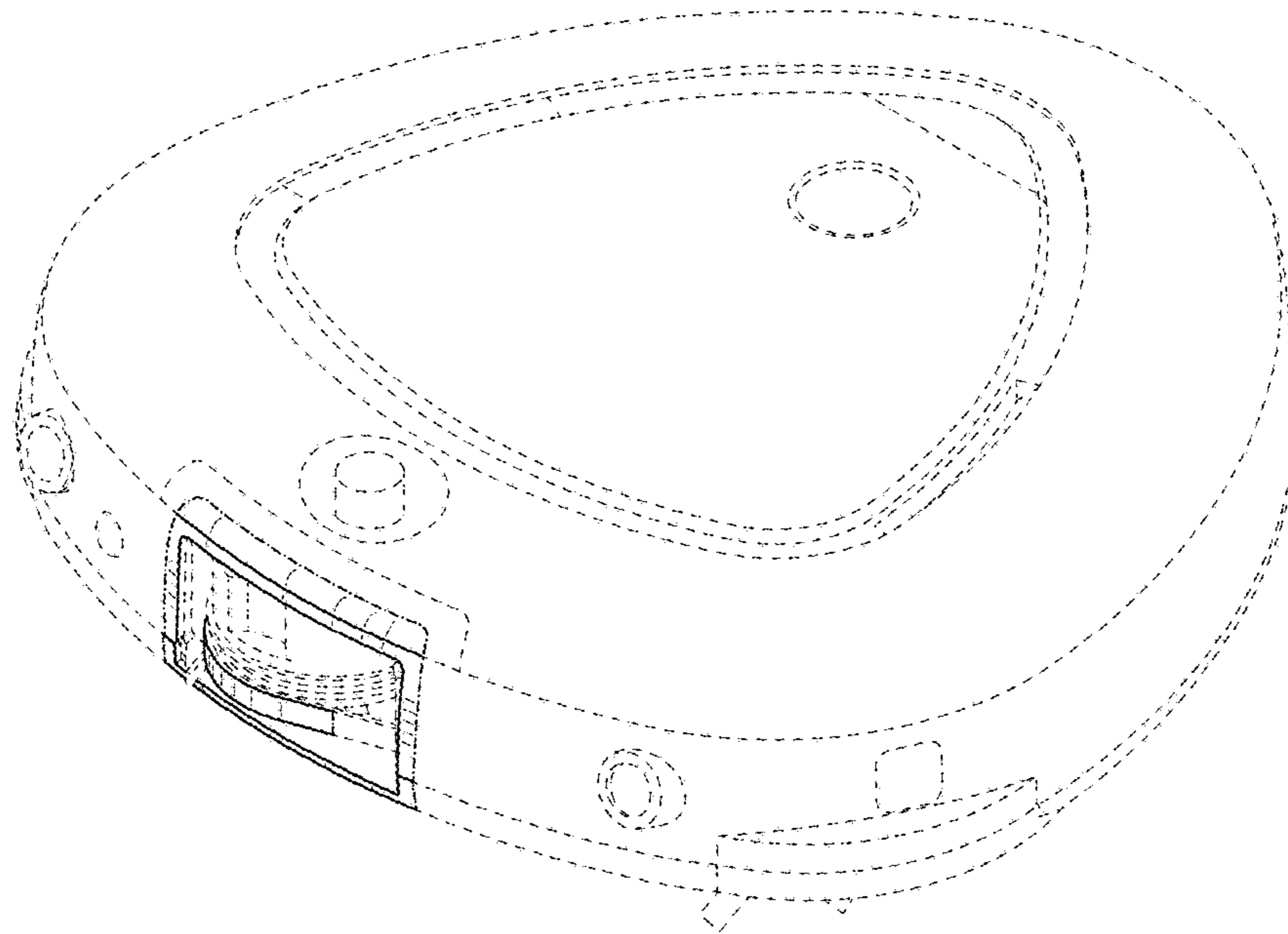


FIG. 9

