



US0D1054564S

(12)

United States Design Patent

VanNoy et al.

(10)

Patent No.:

US D1,054,564 S

(45)

Date of Patent:

** Dec. 17, 2024

(54) ORTHODONTIC TUBE

DESCRIPTION

(71) Applicant: **LightForce Orthodontics Inc.**,
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(73) Assignee: **LightForce Orthodontics, Inc.**,
Burlington, MA (US)

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

(21) Appl. No.: **29/851,295**

(22) Filed: **Aug. 26, 2022**

(51) **LOC (14) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/180**

(58) **Field of Classification Search**
USPC D24/176, 180, 181, 182
(Continued)

FIG. 1 is a top, front, left perspective view of the orthodontic tube according to a first embodiment;
FIG. 2 is a front view thereof;
FIG. 3 is a rear view thereof;
FIG. 4 is a left view thereof;
FIG. 5 is a right view thereof;
FIG. 6 is a top view thereof;
FIG. 7 is a bottom view thereof;
FIG. 8 is a bottom, rear, right perspective view thereof;
FIG. 9 is a top, front, right perspective view of the orthodontic tube according to a second embodiment;
FIG. 10 is a front view thereof;
FIG. 11 is a rear view thereof;
FIG. 12 is a left view thereof;
FIG. 13 is a right view thereof;
FIG. 14 is a top view thereof;
FIG. 15 is a bottom view thereof;
FIG. 16 is a bottom, rear, left perspective view thereof;
FIG. 17 is a top, front, left perspective view of the orthodontic tube according to a third embodiment wherein the oblique lines indicate a white or translucent white ceramic material;
FIG. 18 is a front view thereof;
FIG. 19 is a rear view thereof;
FIG. 20 is a left view thereof;
FIG. 21 is a right view thereof;
FIG. 22 is a top view thereof;
FIG. 23 is a bottom view thereof;
FIG. 24 is a bottom, rear, right perspective view thereof;
FIG. 25 is a top, front, right perspective view of the orthodontic tube according to a fourth embodiment wherein the oblique lines indicate a white or translucent white ceramic material;
FIG. 26 is a front view thereof;
FIG. 27 is a rear view thereof;
FIG. 28 is a left view thereof;
FIG. 29 is a right view thereof;
FIG. 30 is a top view thereof;
FIG. 31 is a bottom view thereof; and
FIG. 32 is a bottom, rear, left perspective view thereof.
The evenly spaced broken lines and adjacent unshaded surfaces show portions of the orthodontic tube that form no

(56) **References Cited**

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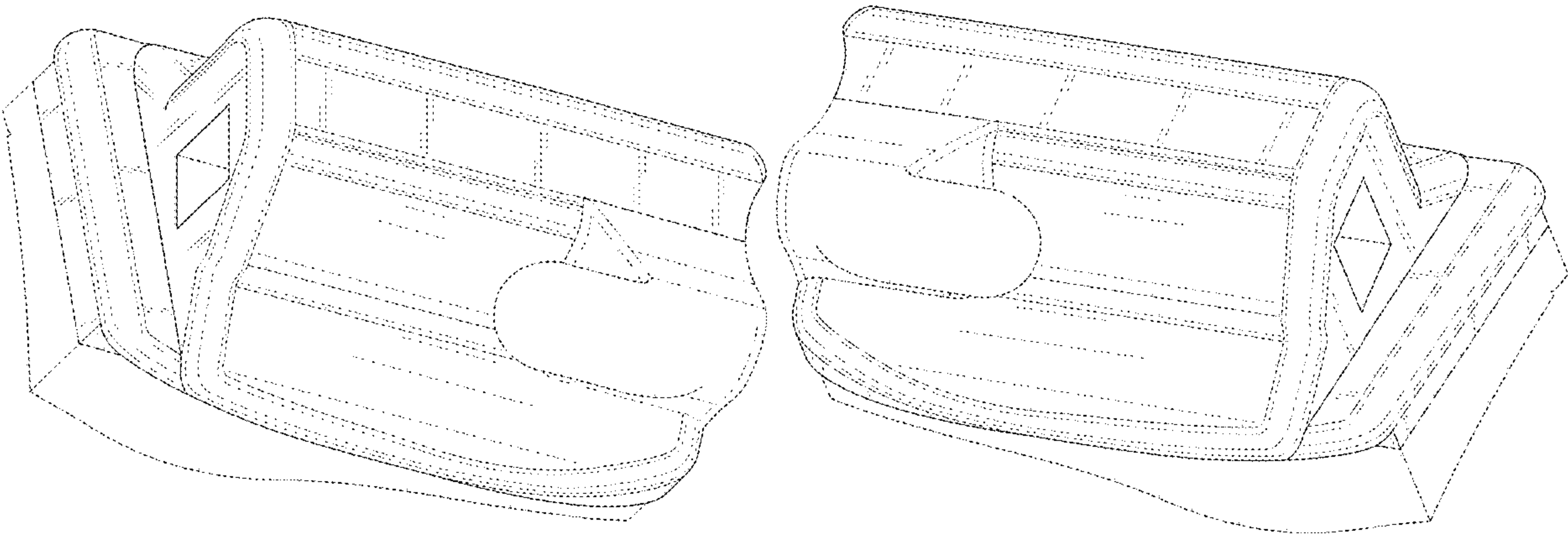
Primary Examiner — Wan Laymon

(74) Attorney, Agent, or Firm — Wolf, Greenfield & Sacks, P.C.

(57) **CLAIM**

The ornamental design for an orthodontic tube, as shown and described.

(Continued)



part of the claimed design. The dash-dot-dash broken lines define the boundaries of the claim and form no part of the claimed design.

1 Claim, 32 Drawing Sheets

(58) Field of Classification Search

CPC A61C 7/12; A61C 7/282; A61C 7/285;
A61C 7/287; A61C 7/141; A61C 7/14;
A61C 7/143; A61C 7/16; A61C 7/28;
A61C 7/34

See application file for complete search history.

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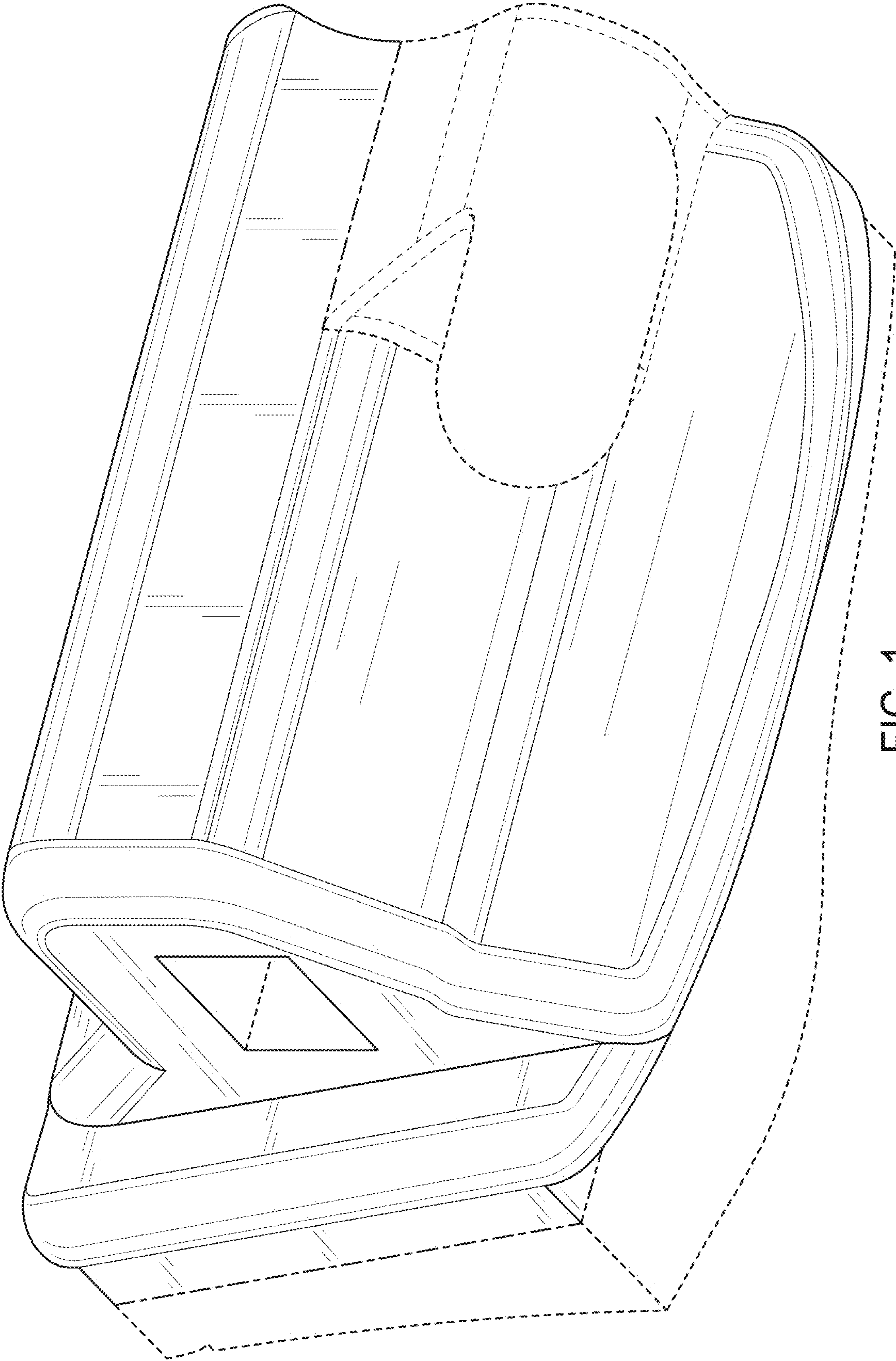
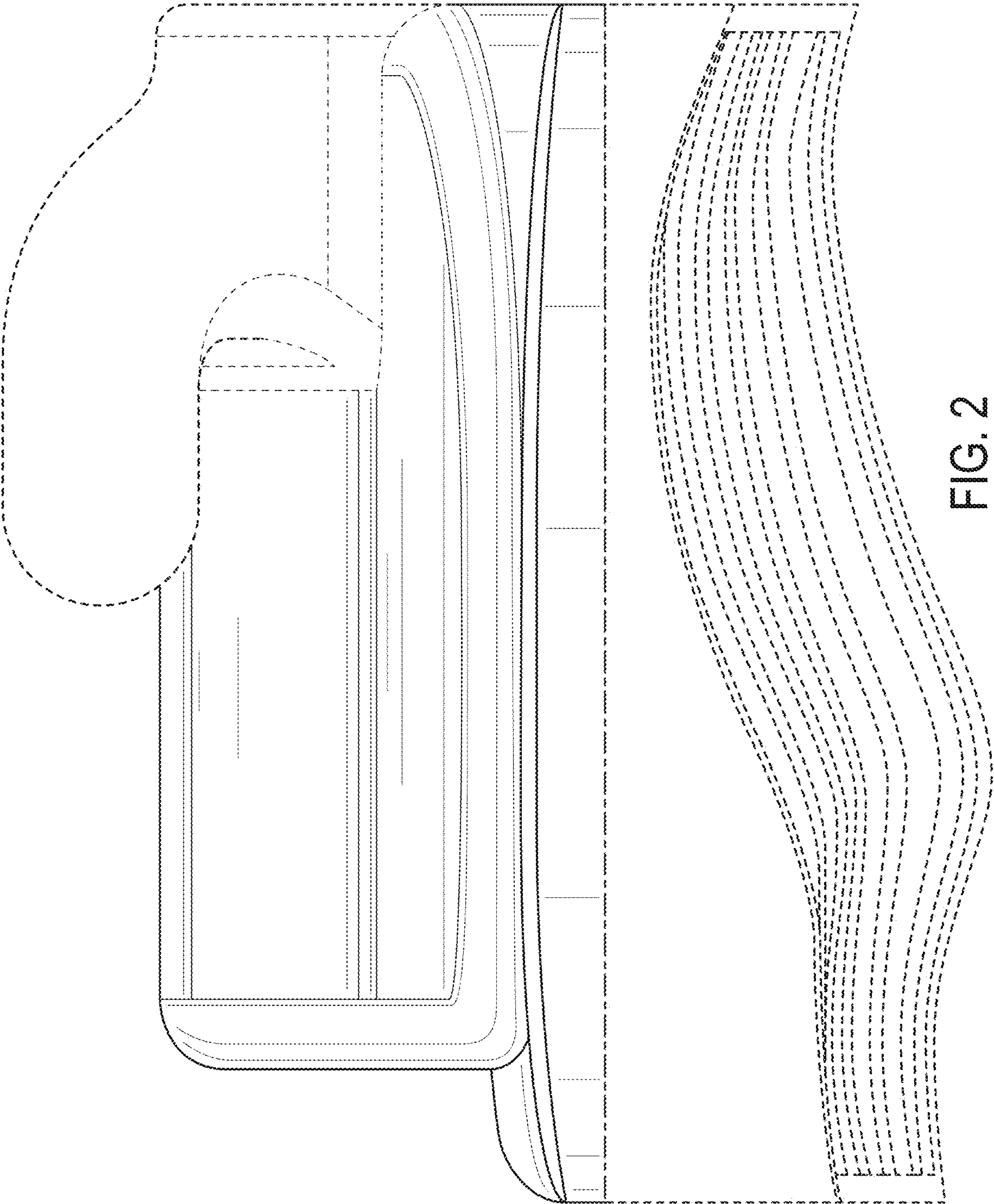


FIG. 1



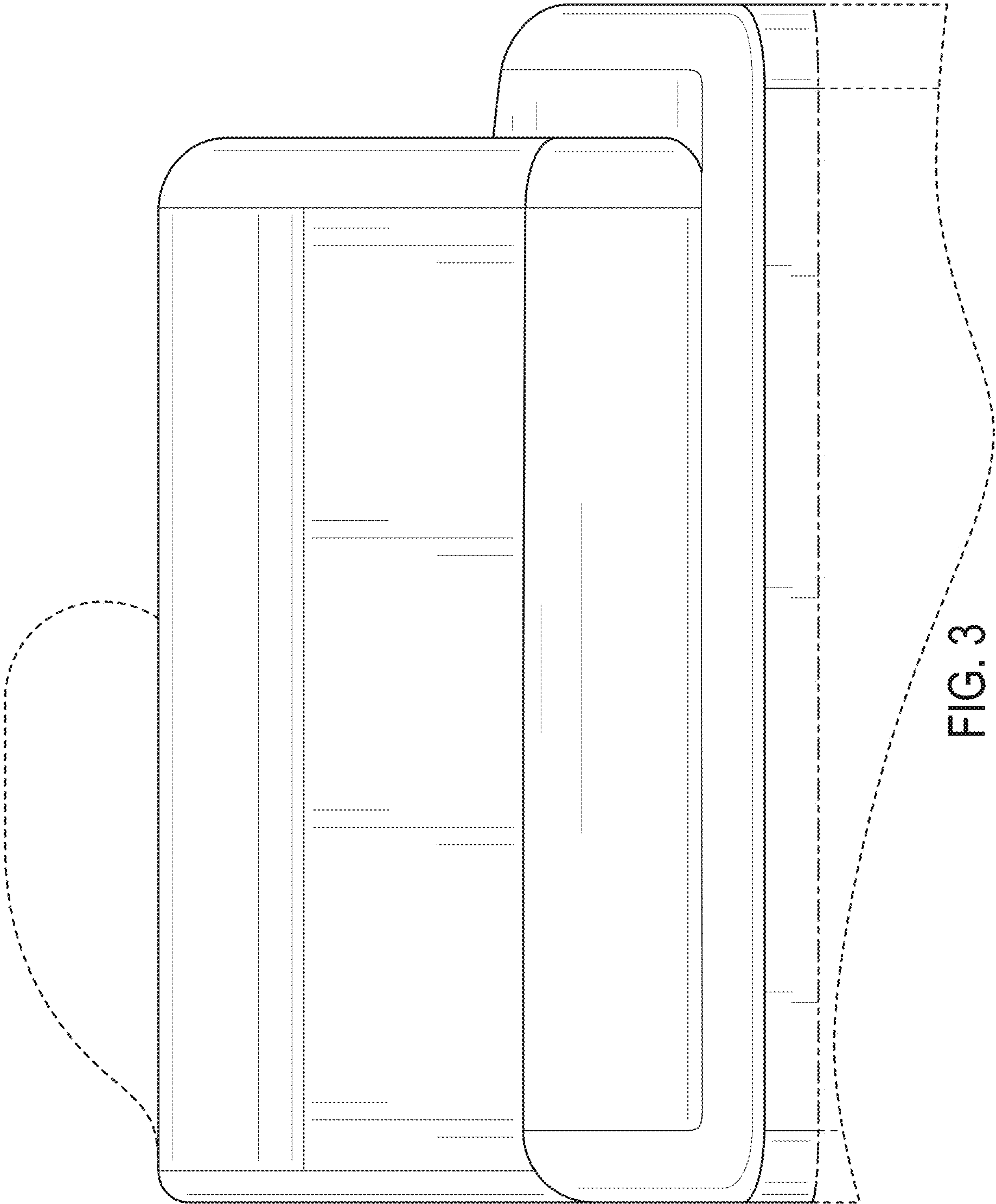


FIG. 3

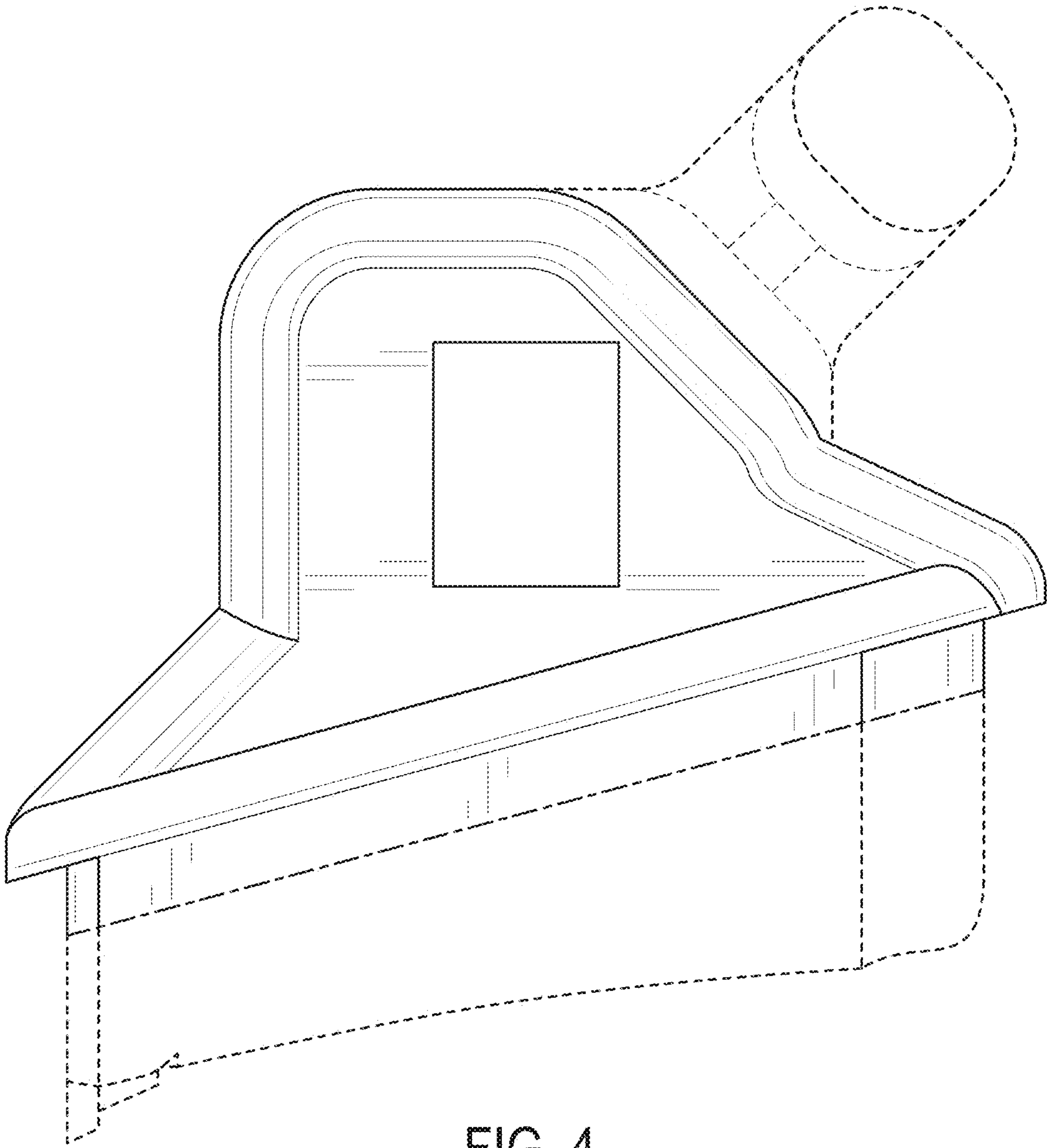


FIG. 4

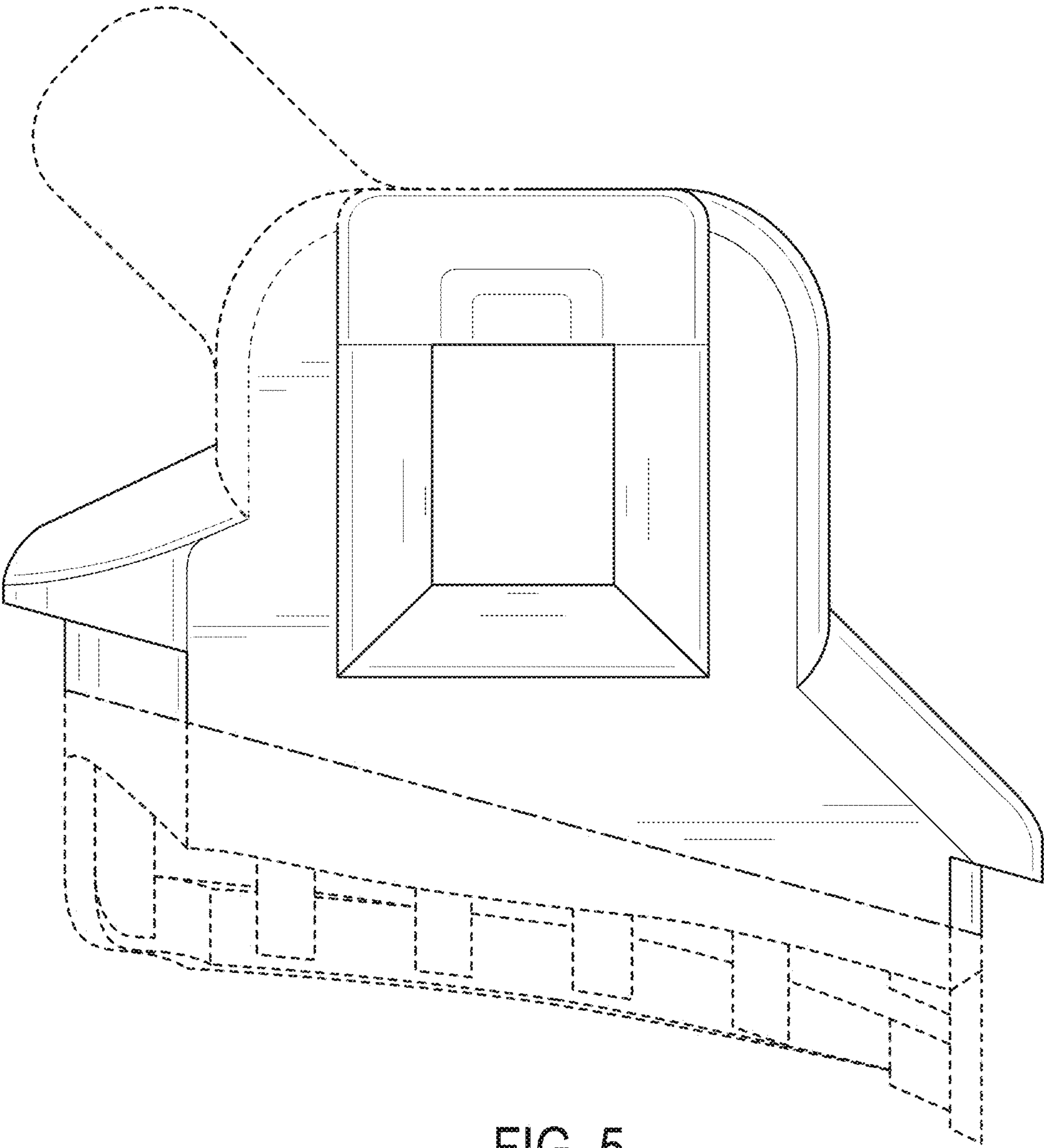


FIG. 5

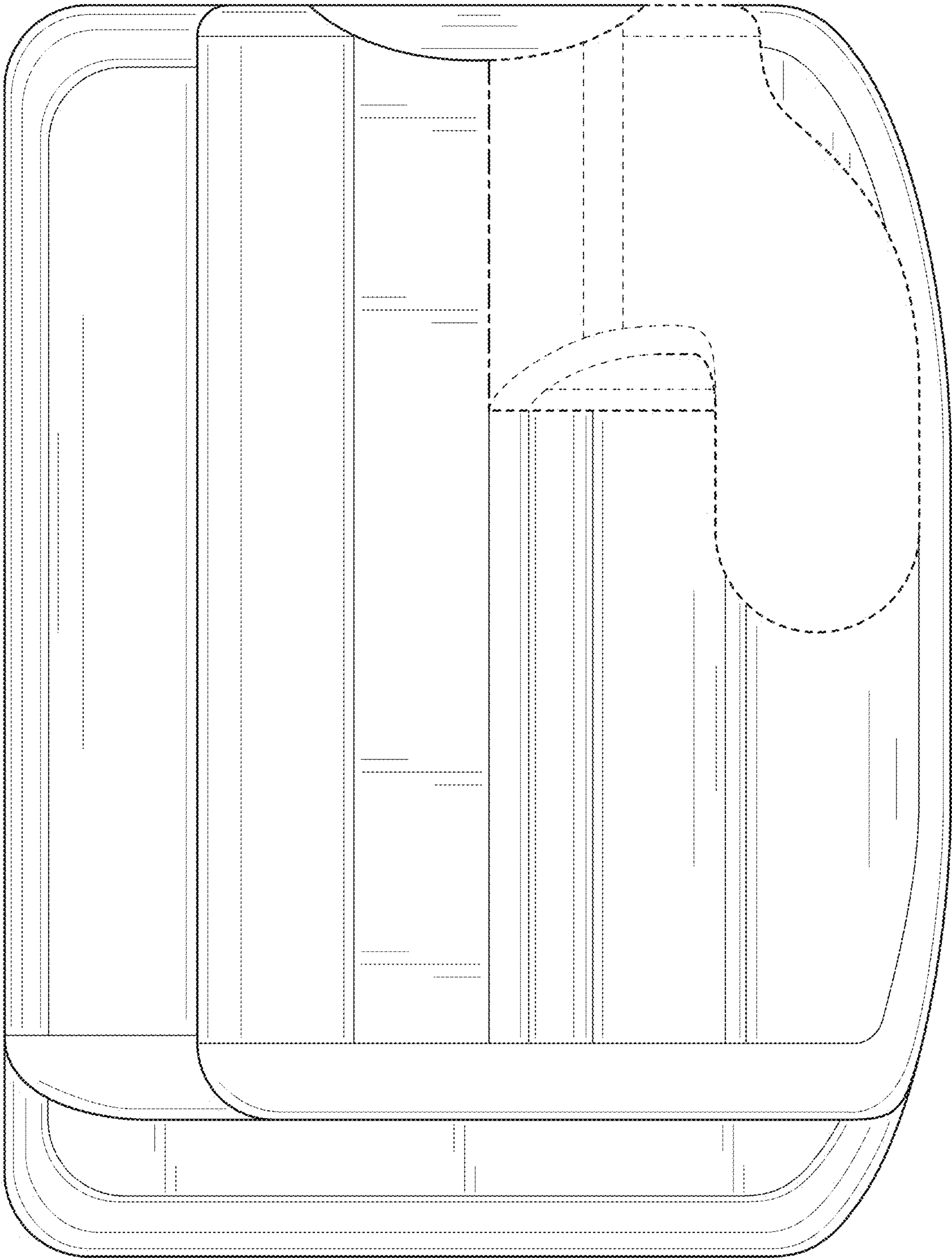


FIG. 6

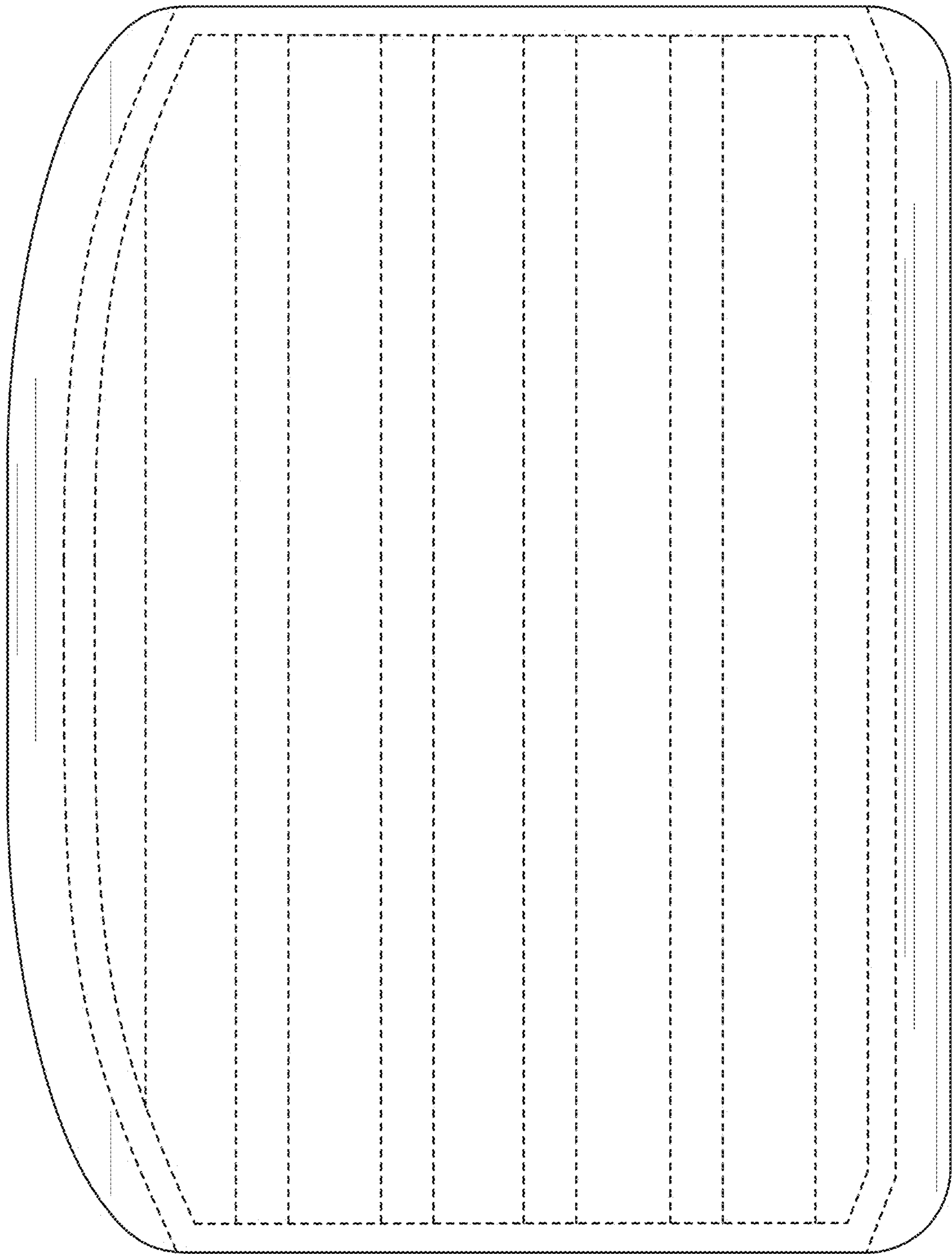


FIG. 7

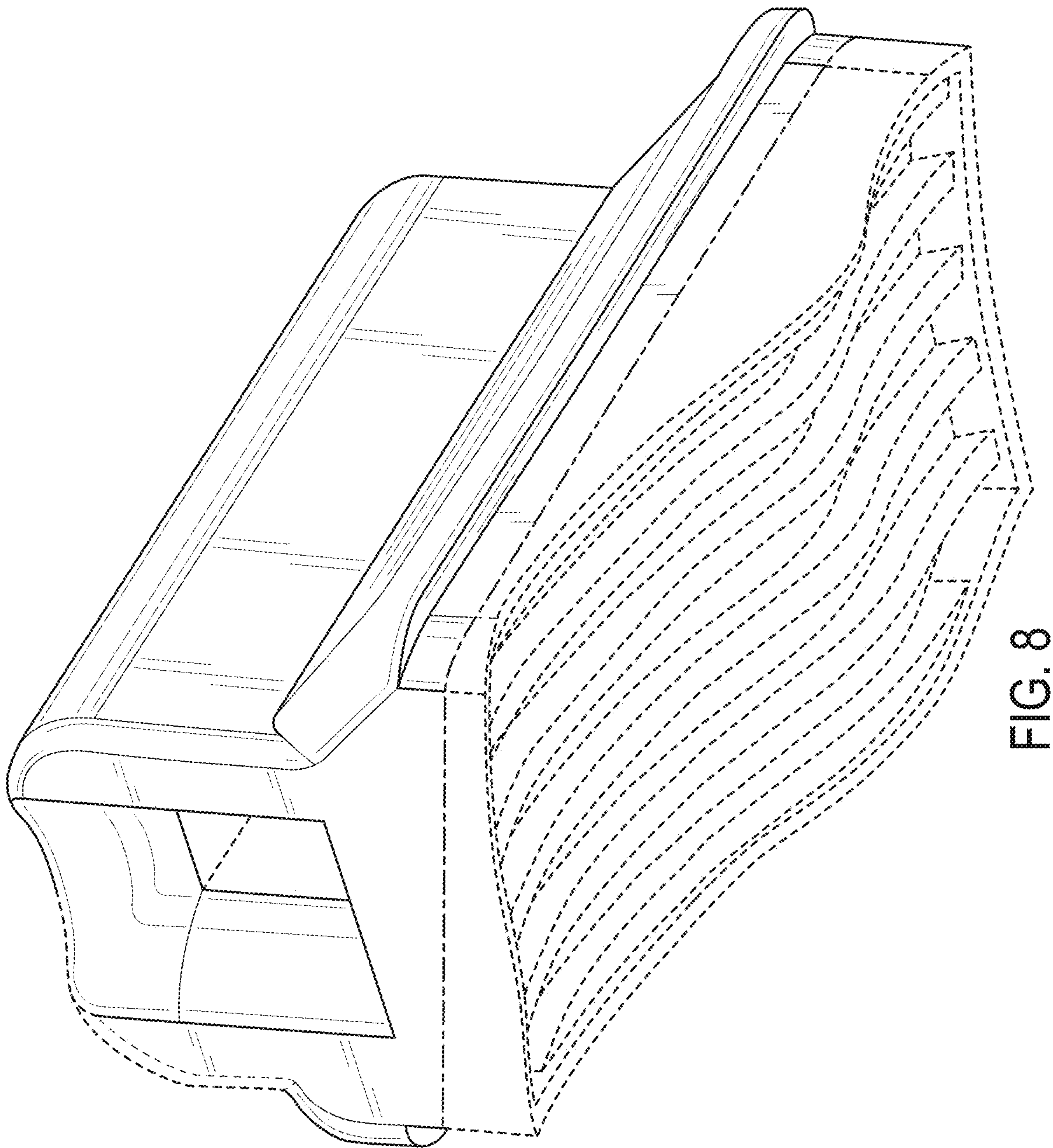


FIG. 8

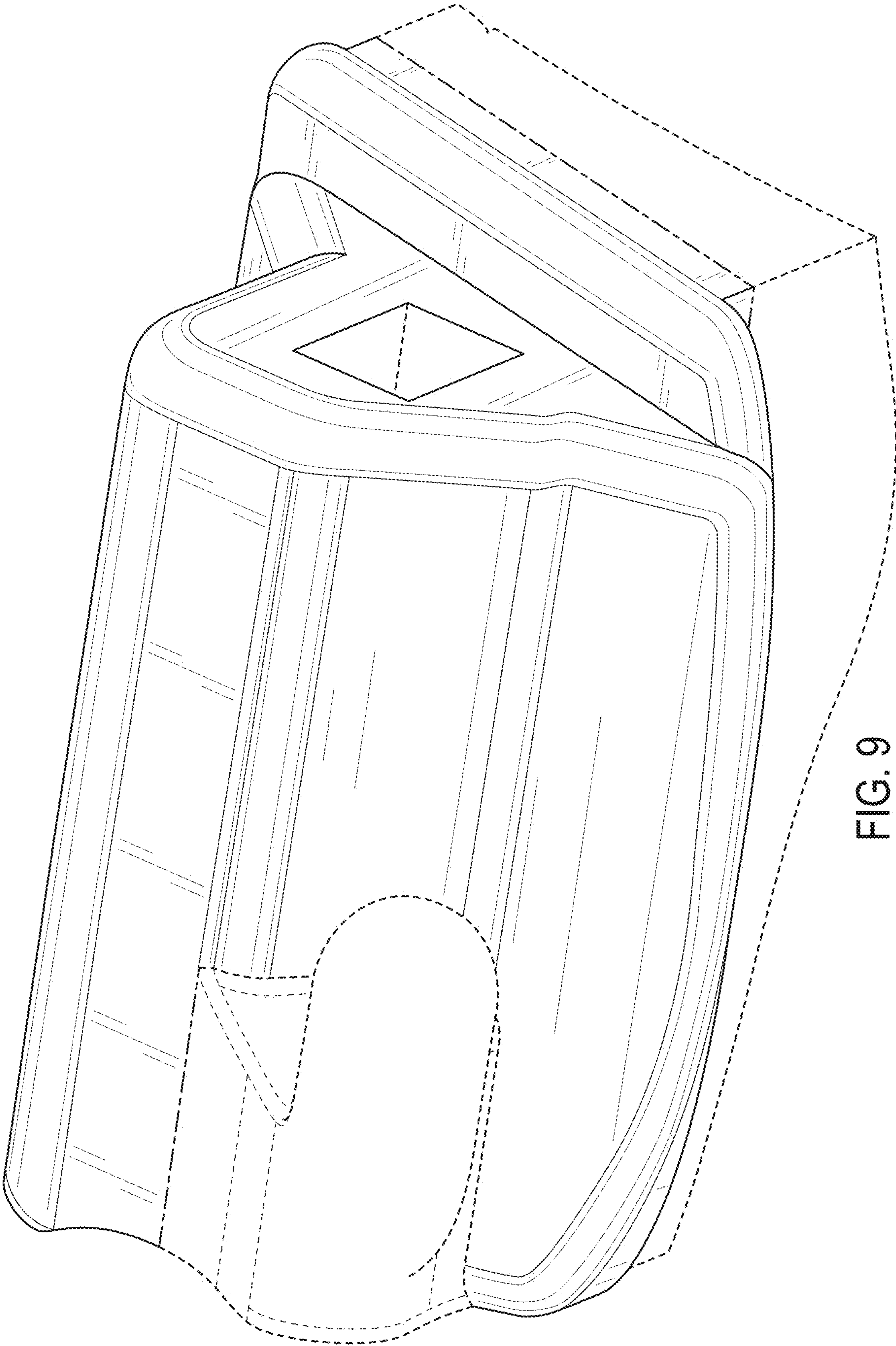
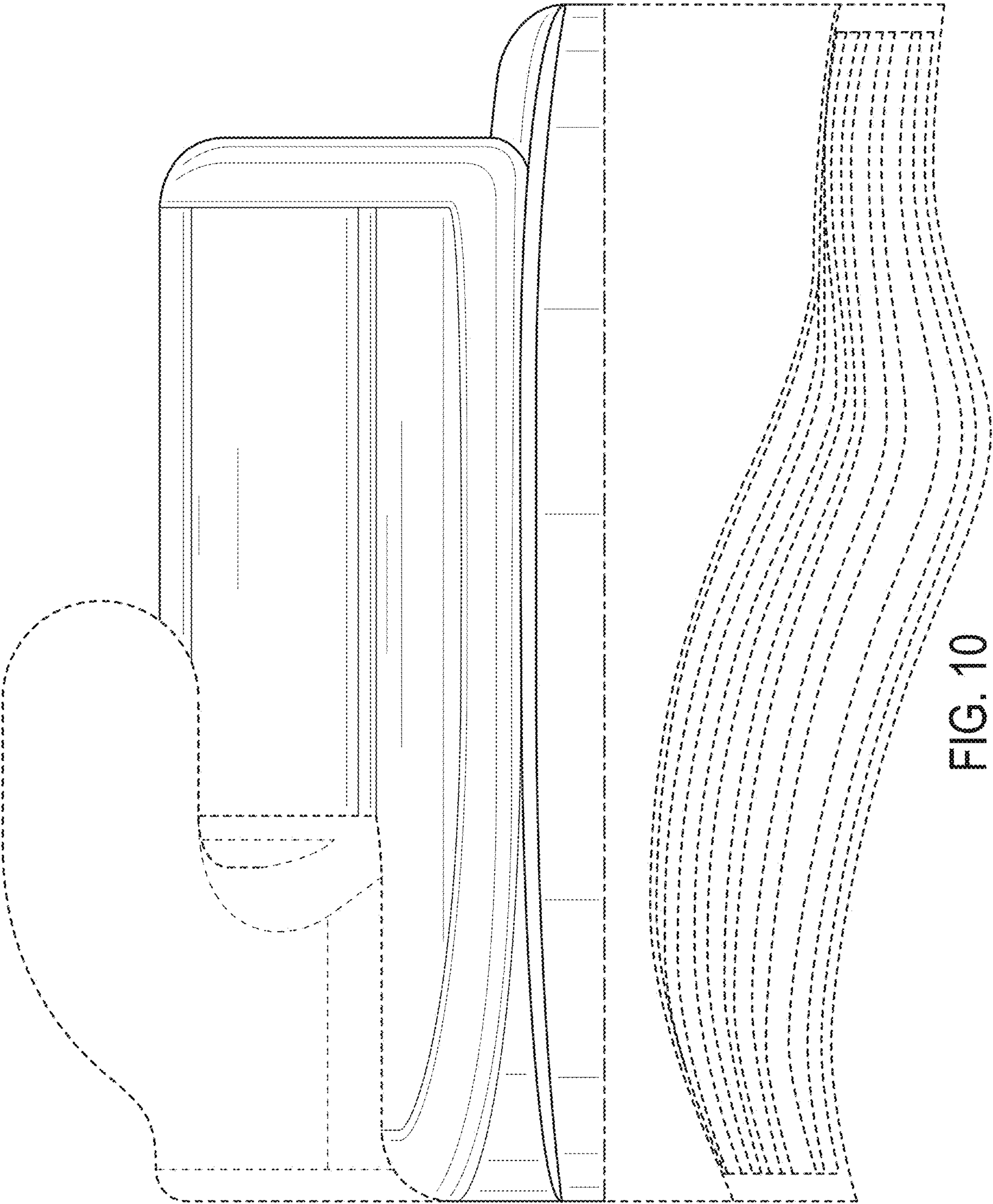


FIG. 9



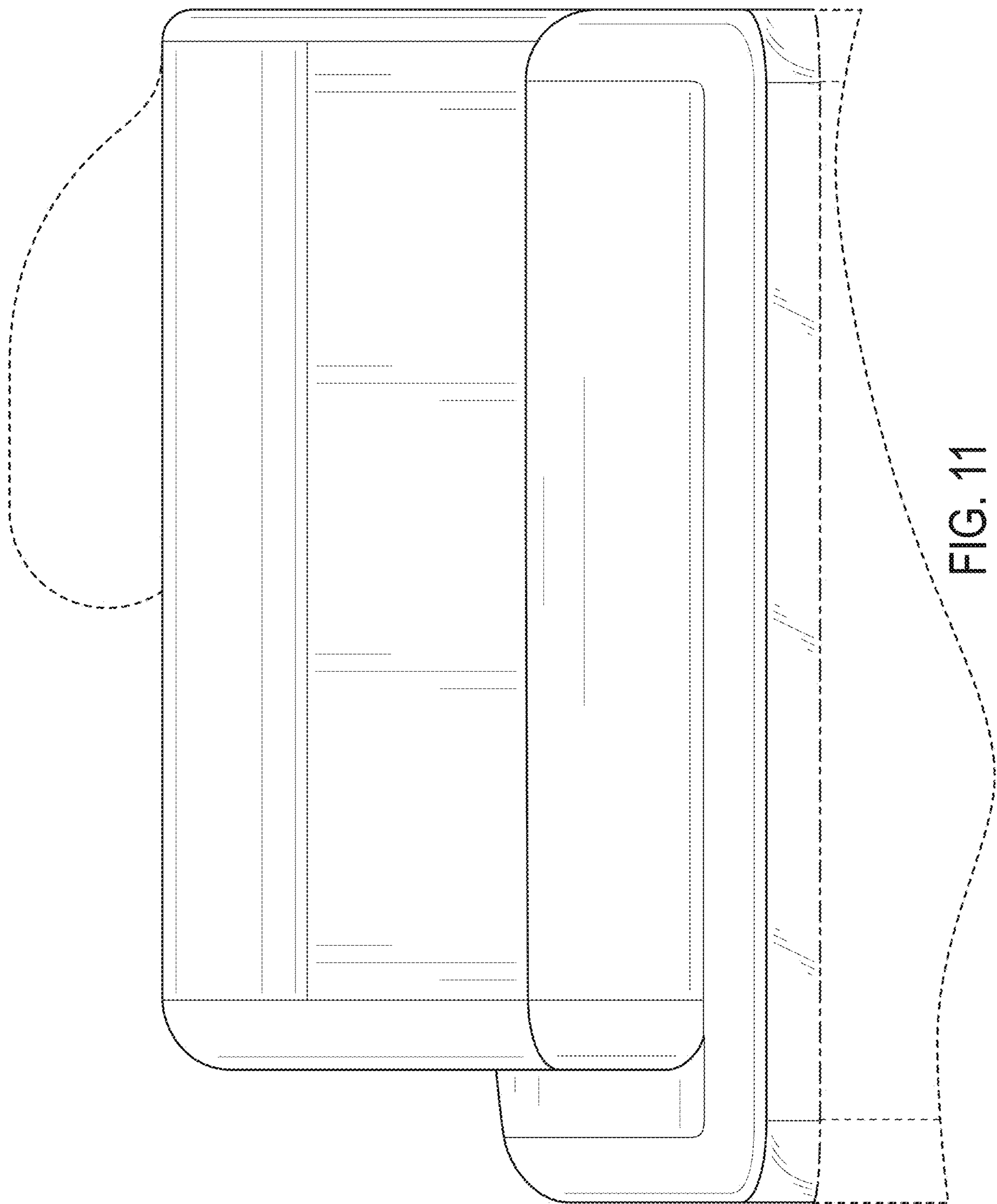


FIG. 11

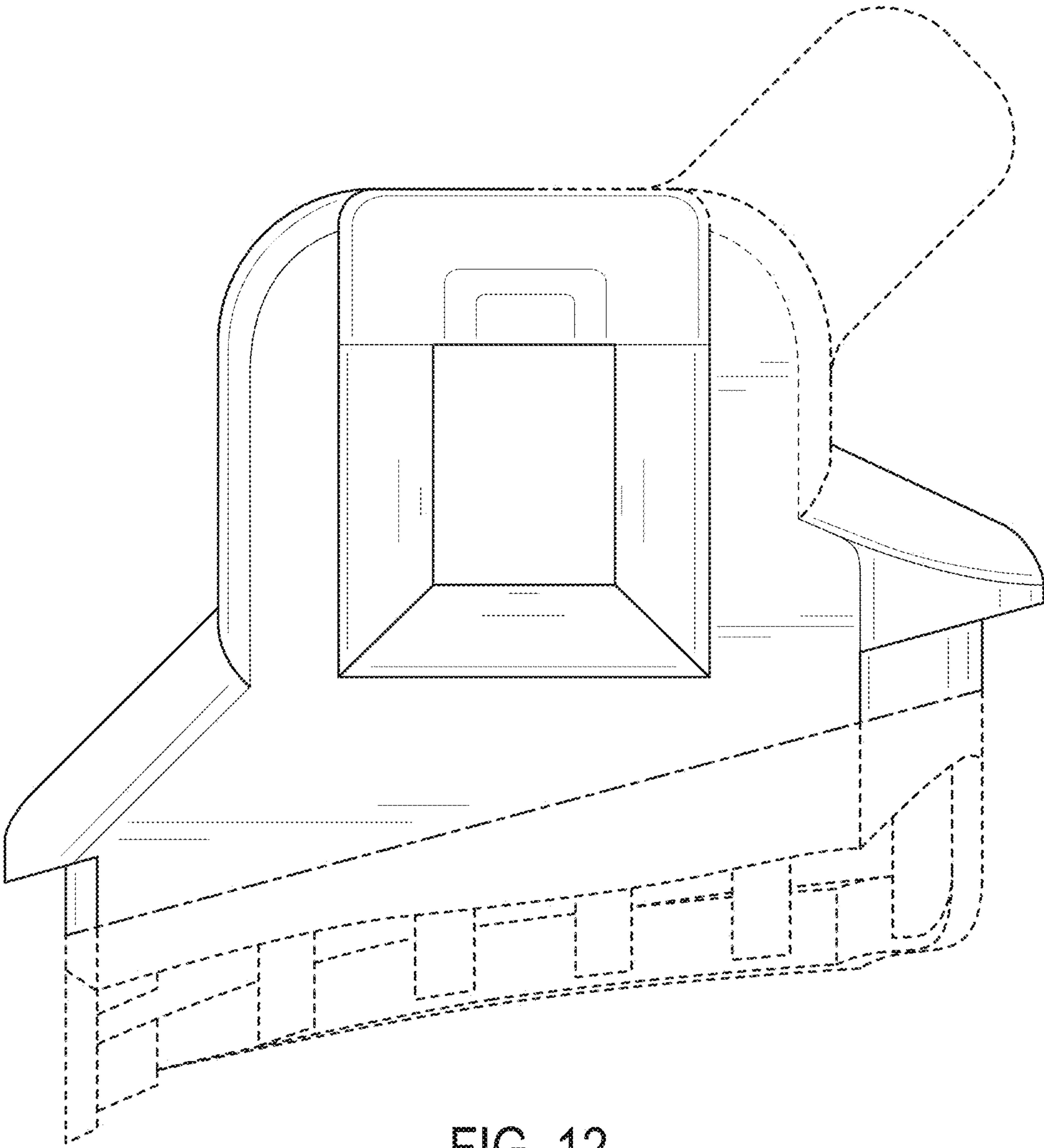


FIG. 12

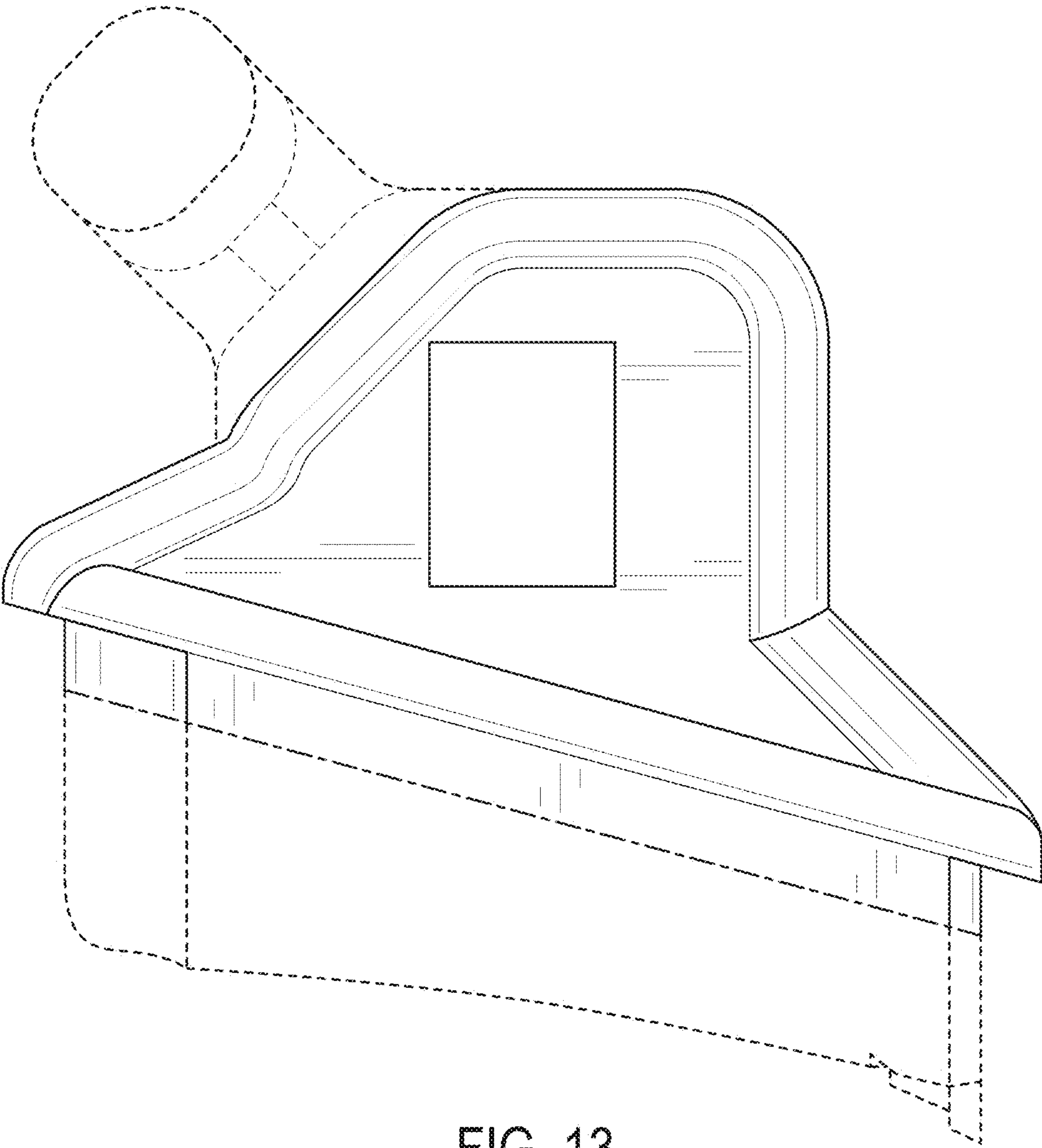


FIG. 13

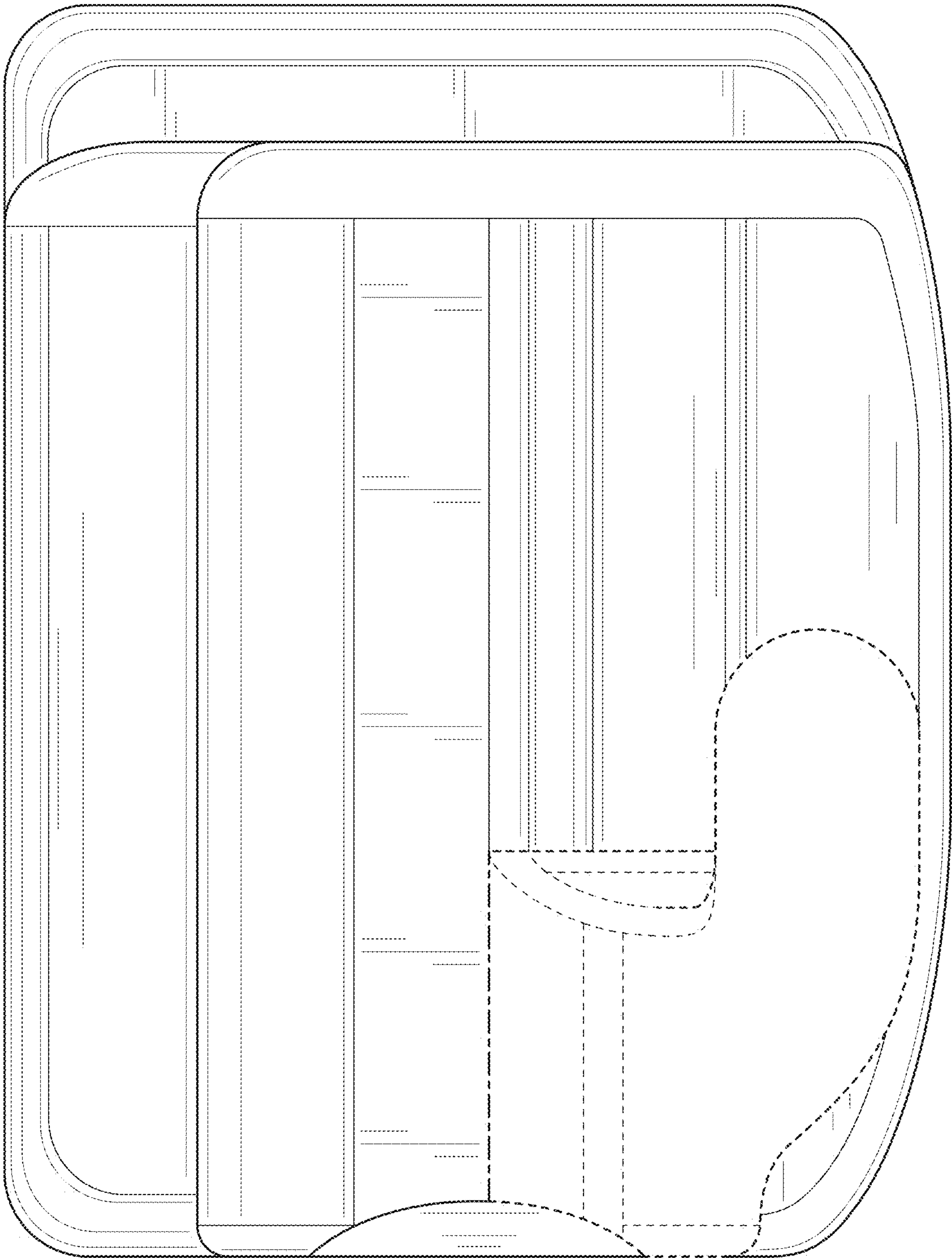


FIG. 14

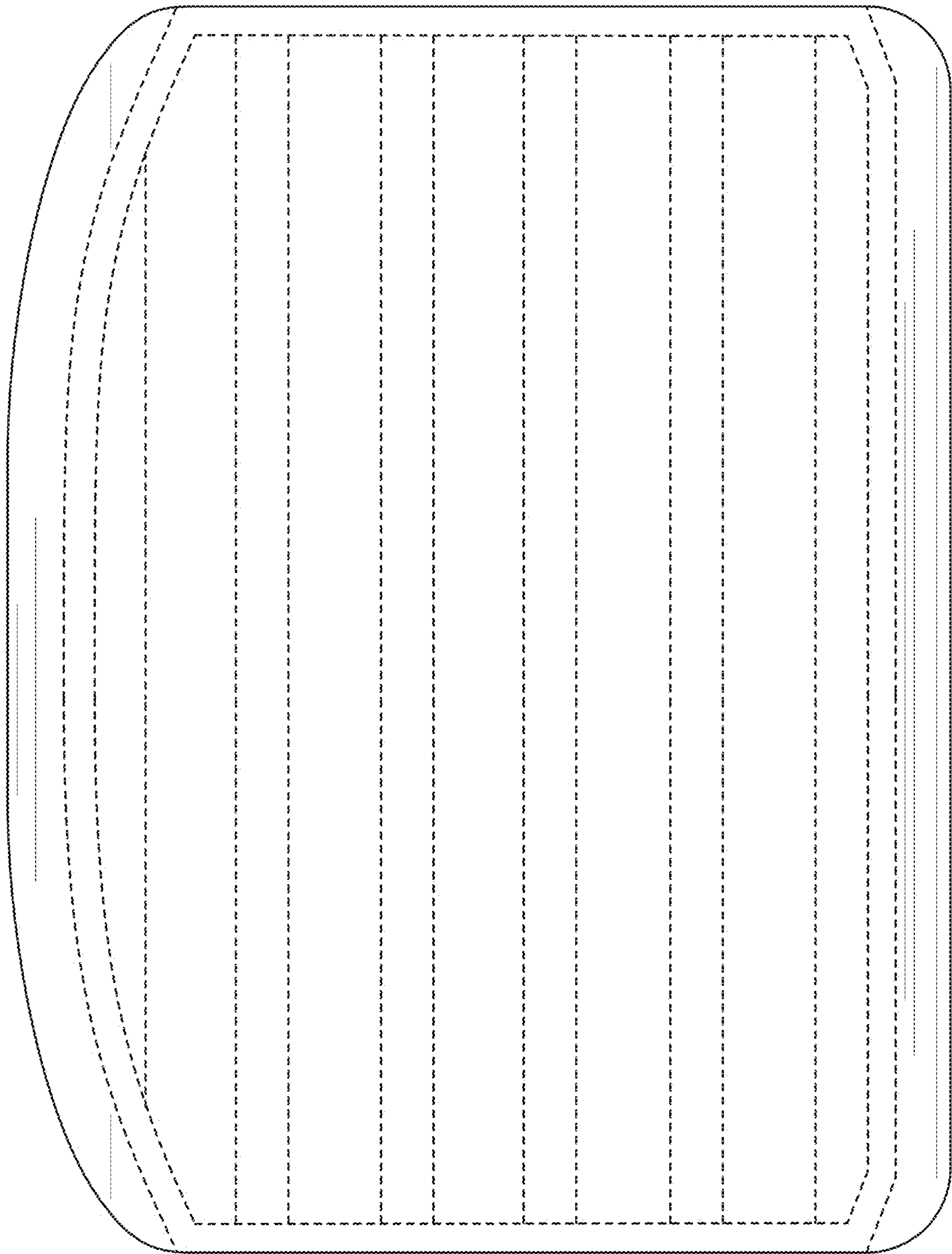


FIG. 15

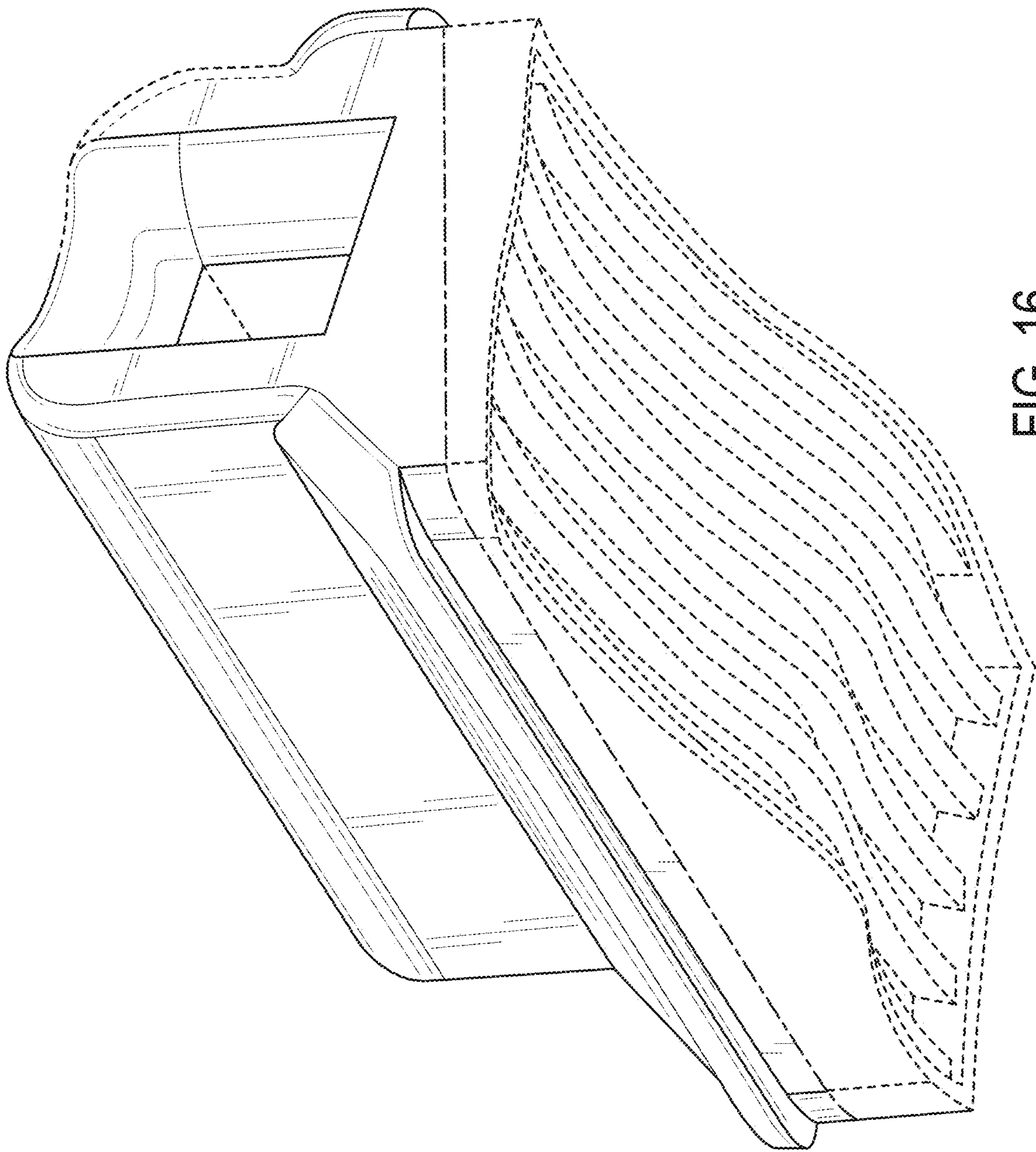


FIG. 16

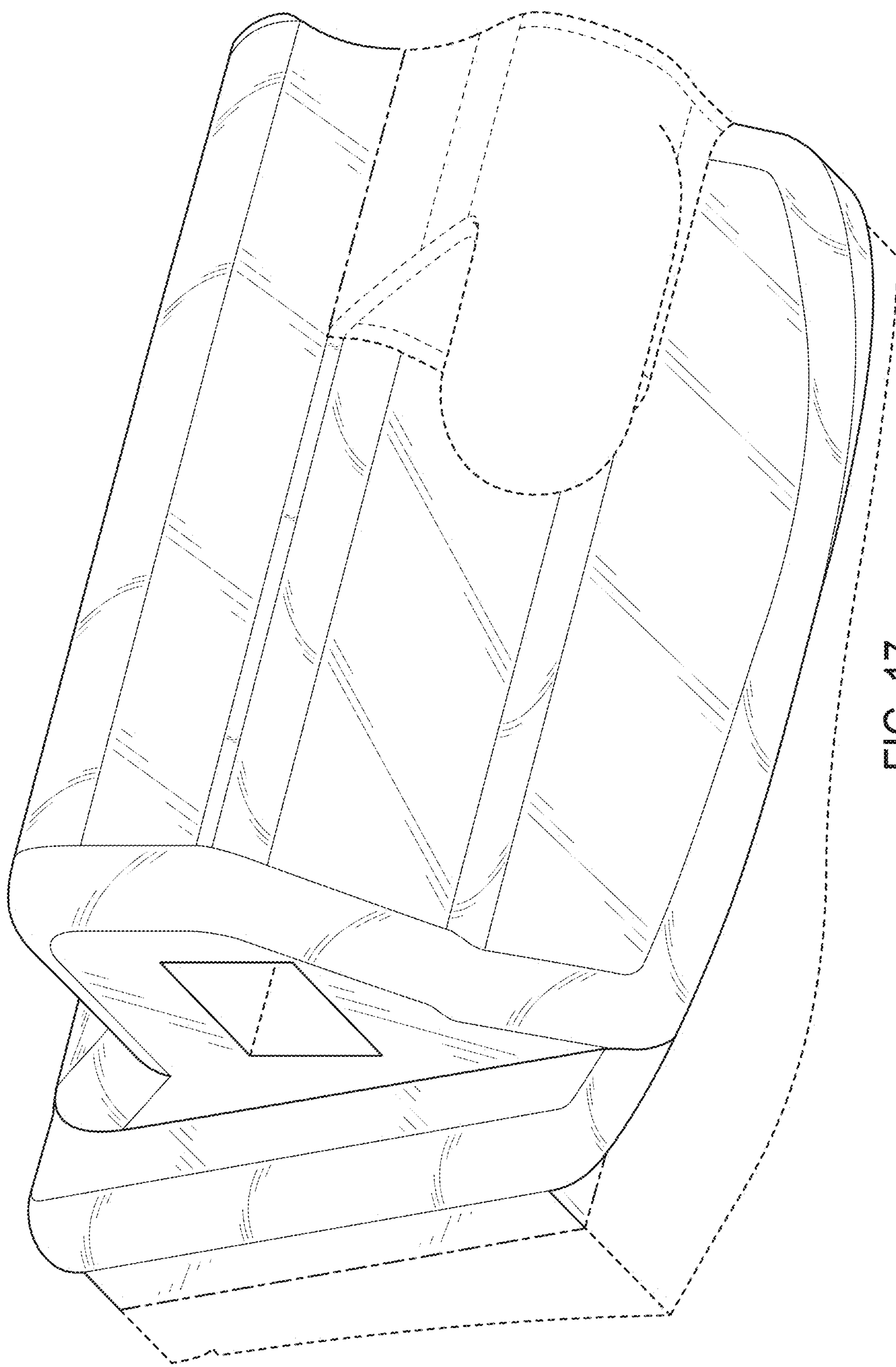


FIG. 17

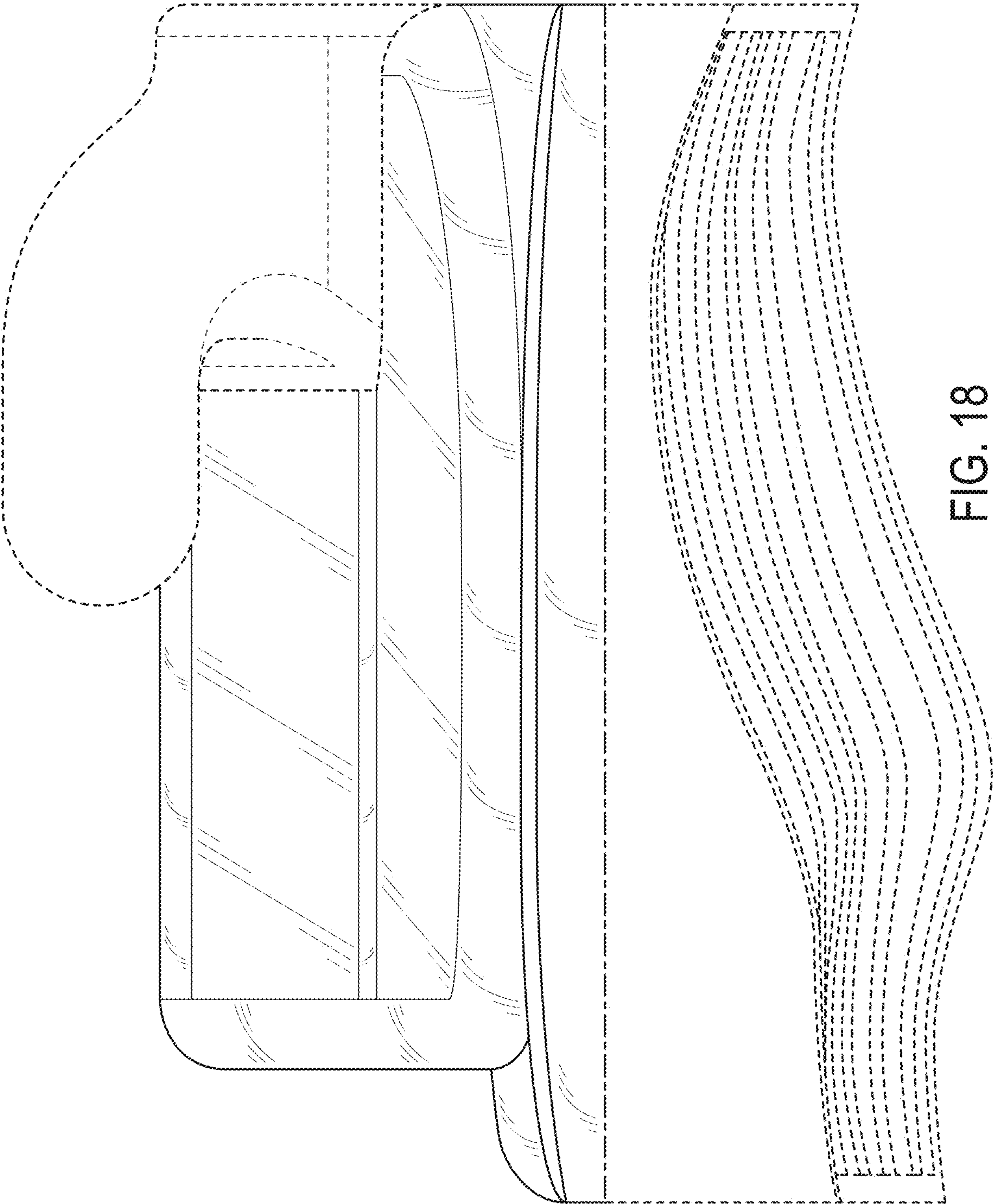


FIG. 18

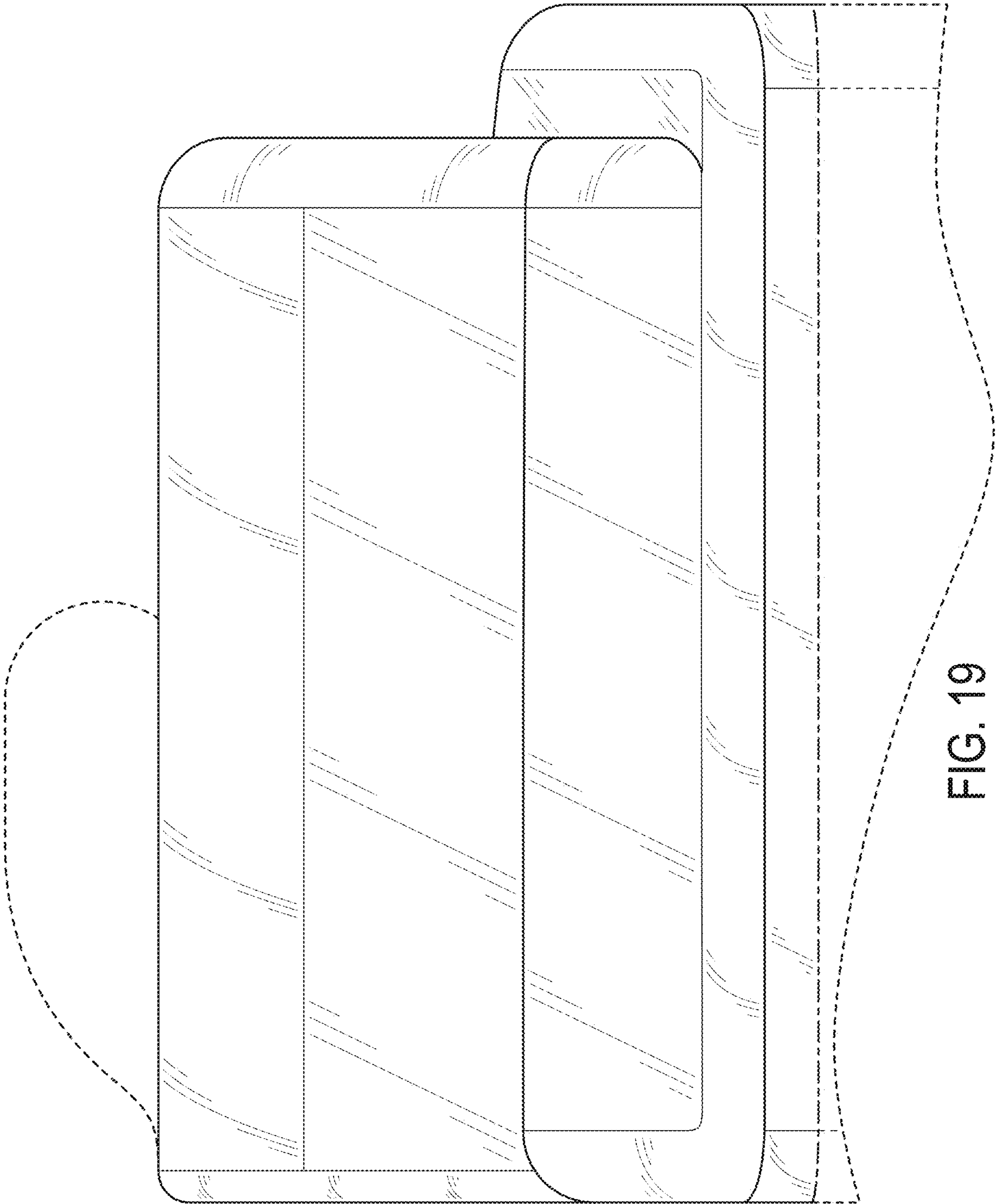


FIG. 19

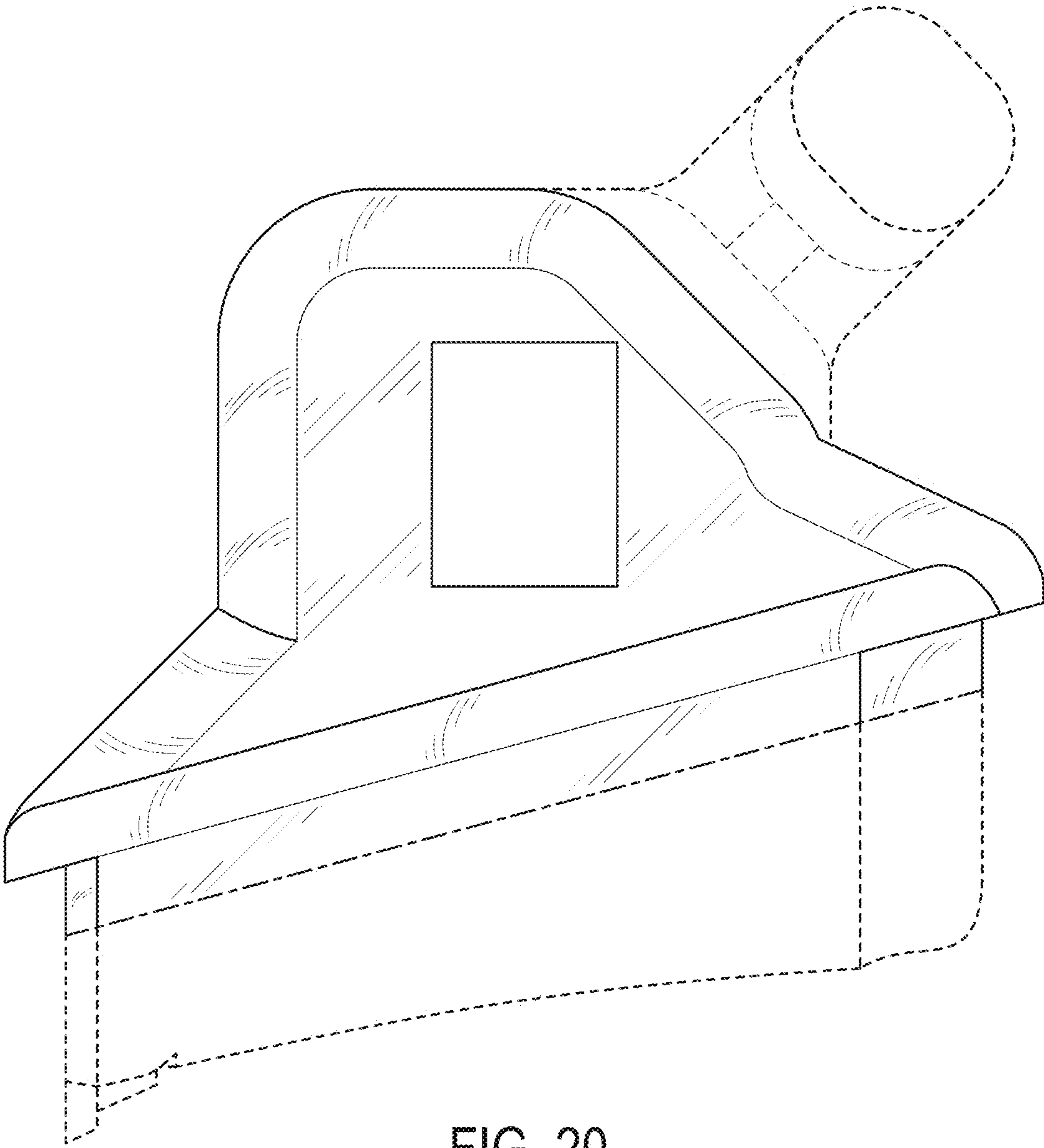


FIG. 20

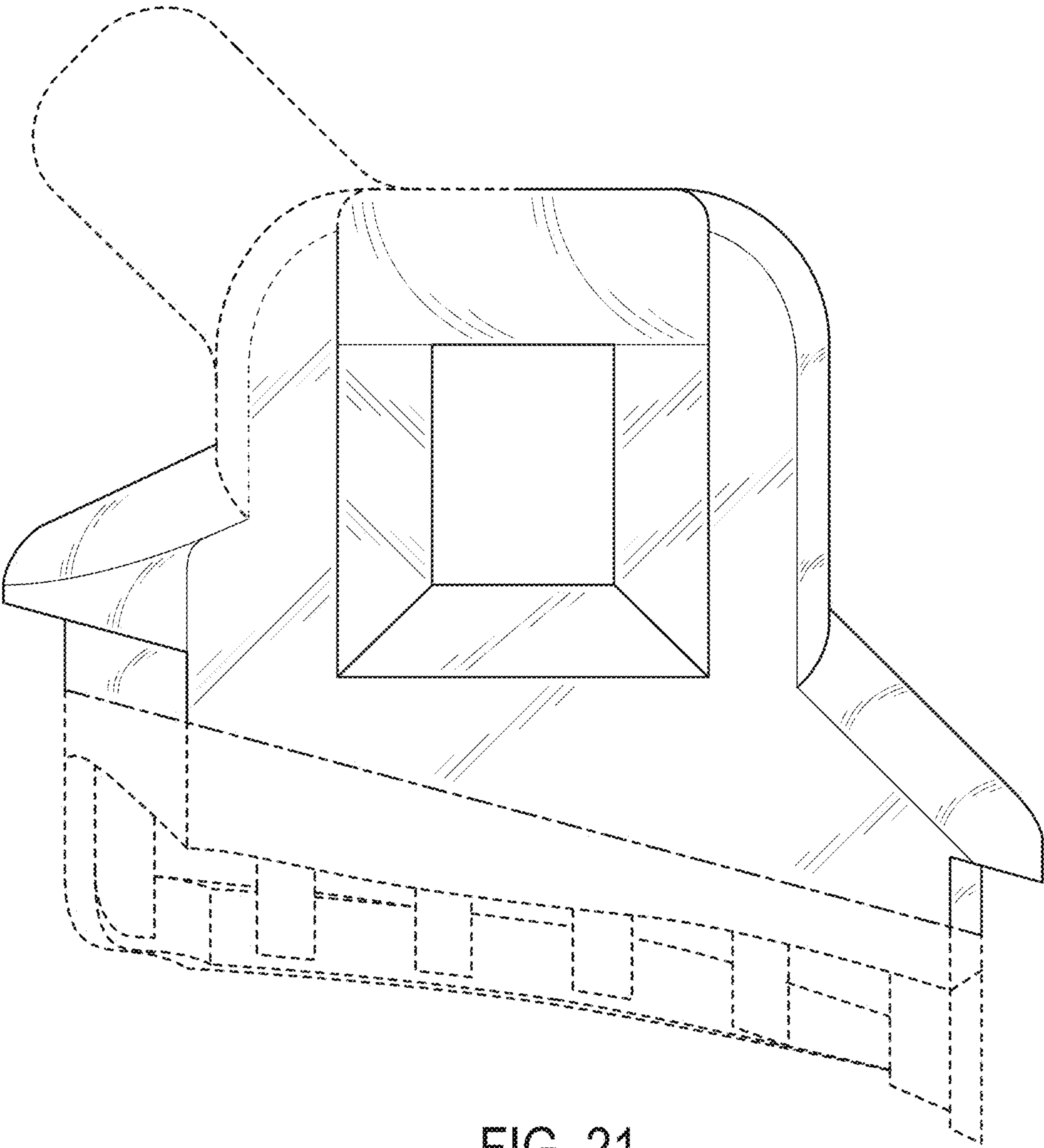


FIG. 21

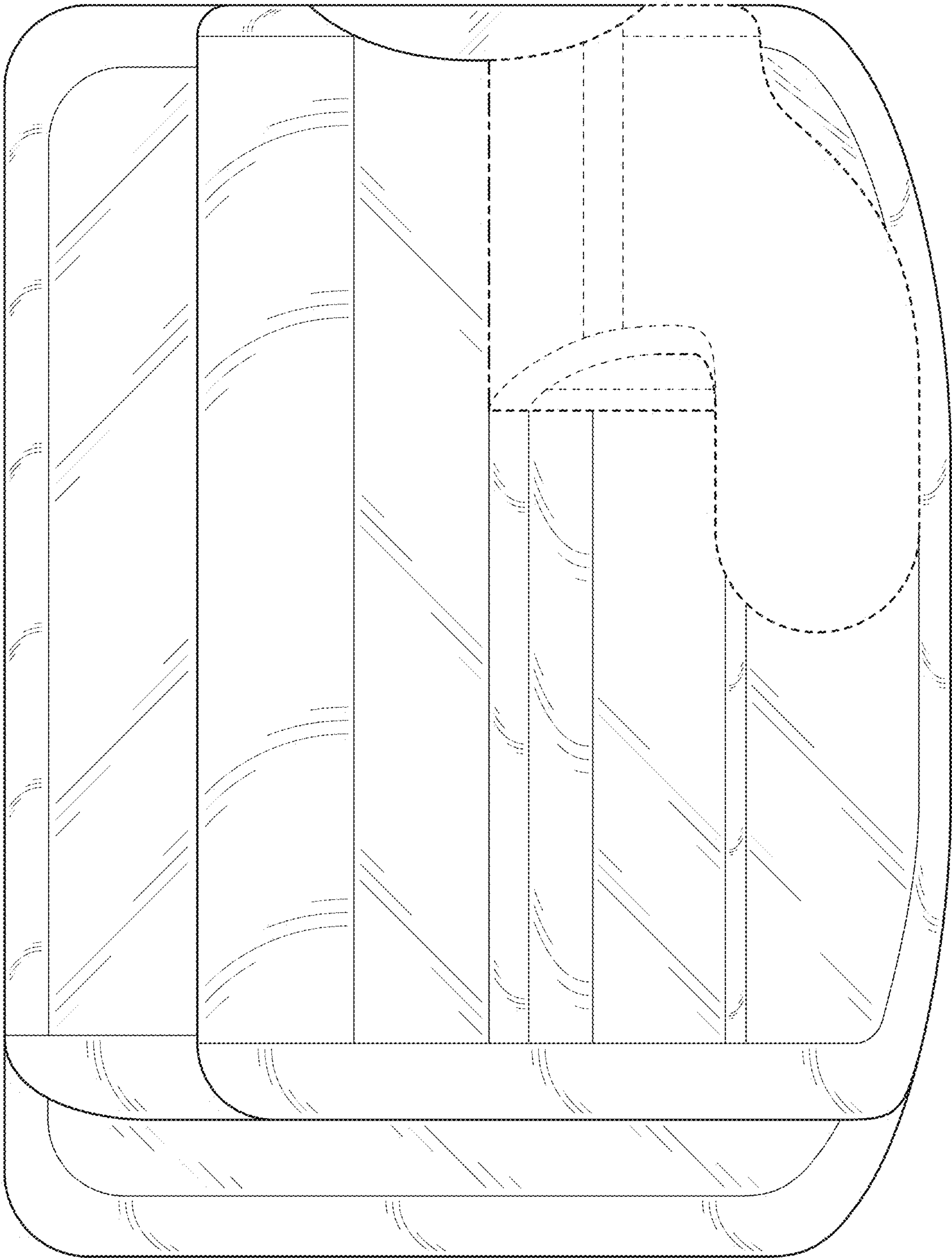


FIG. 22

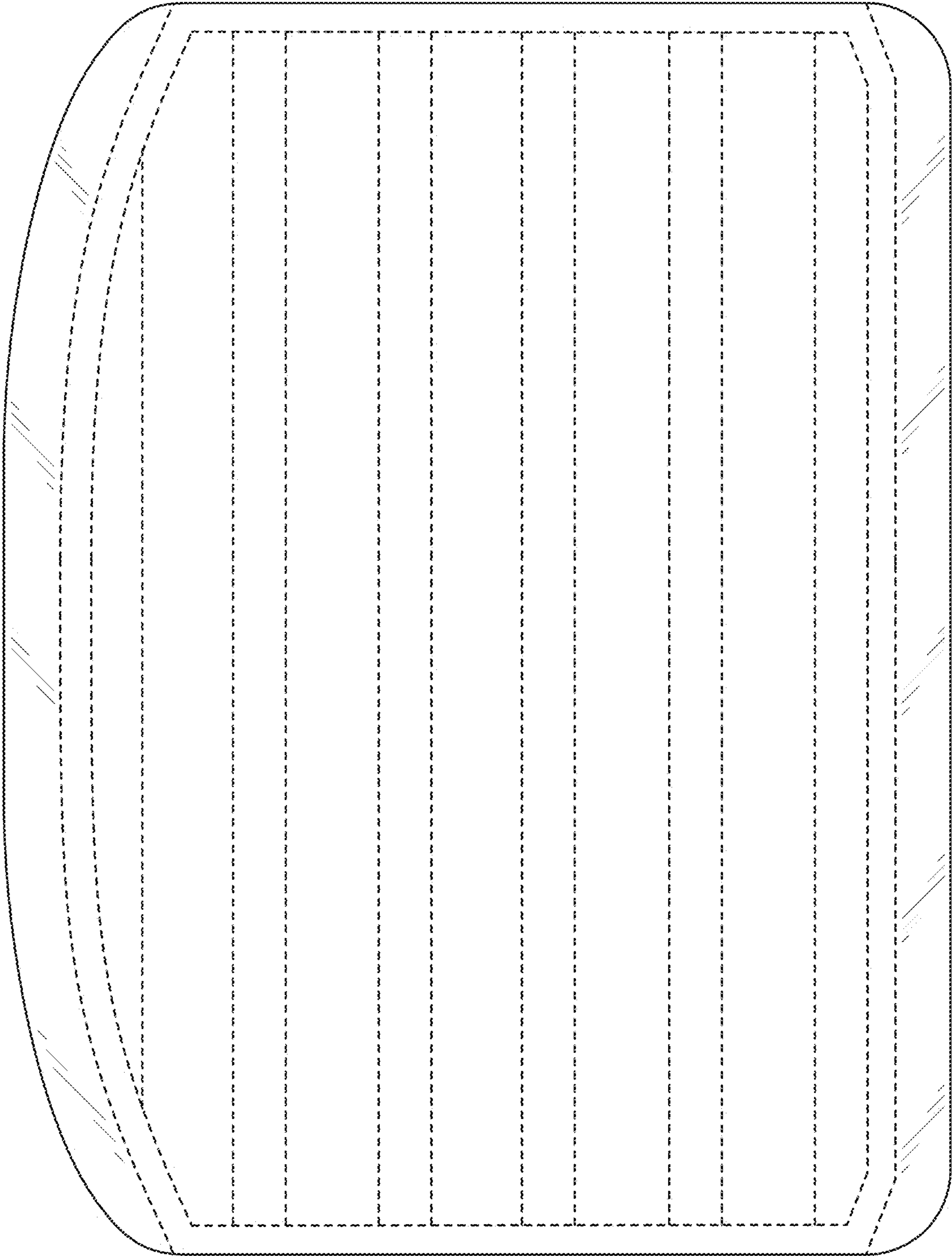


FIG. 23

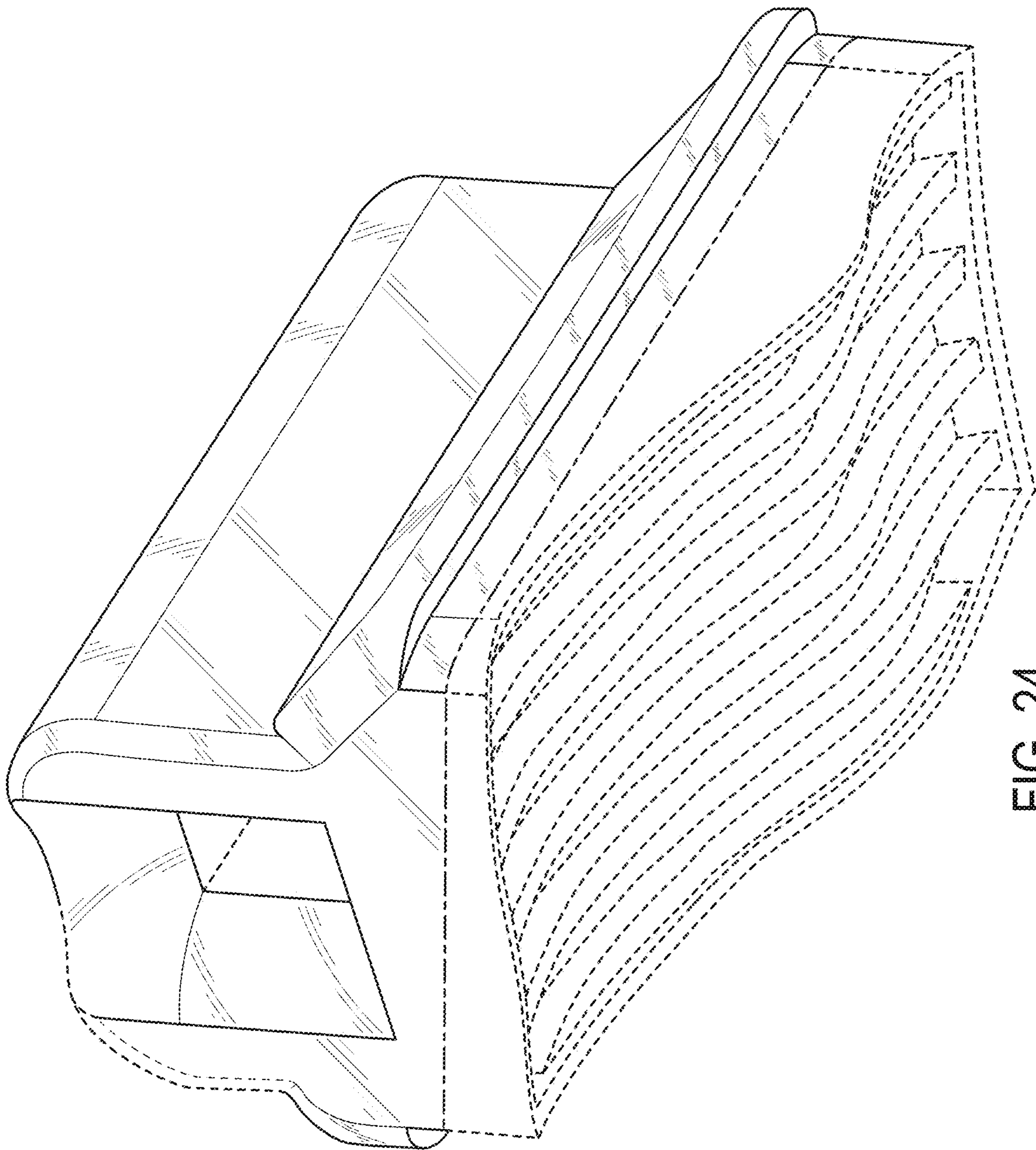


FIG. 24

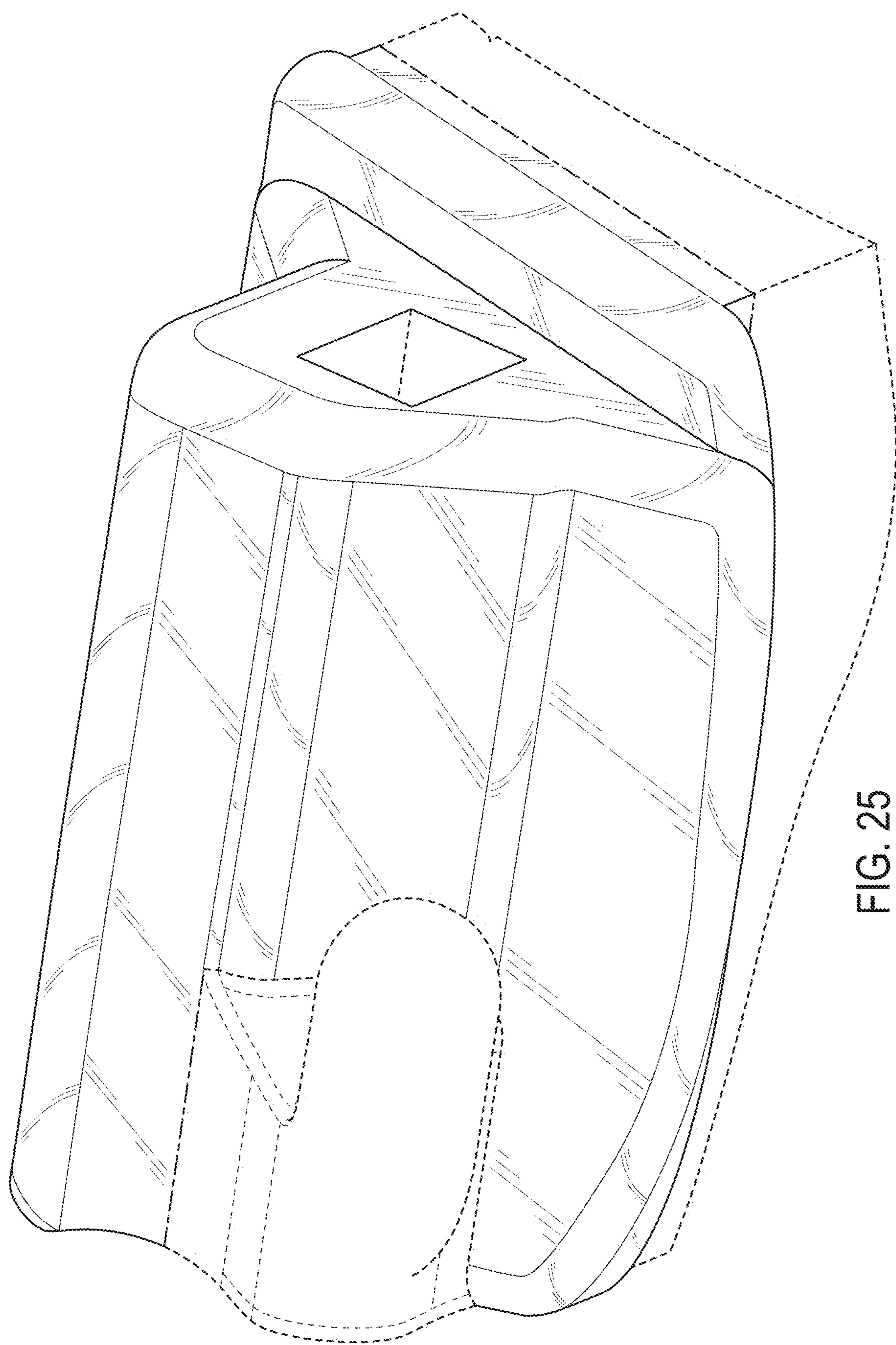


FIG. 25

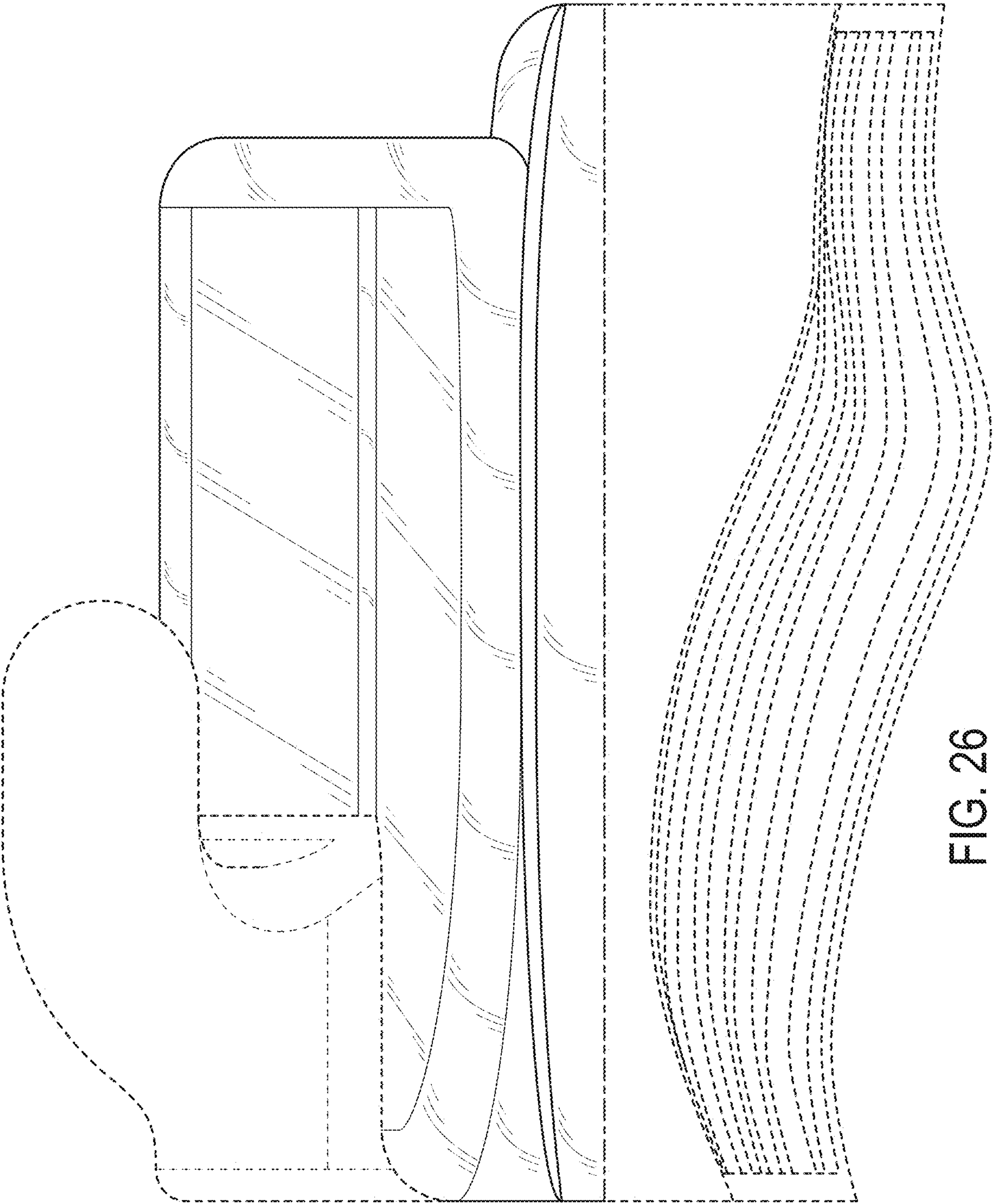
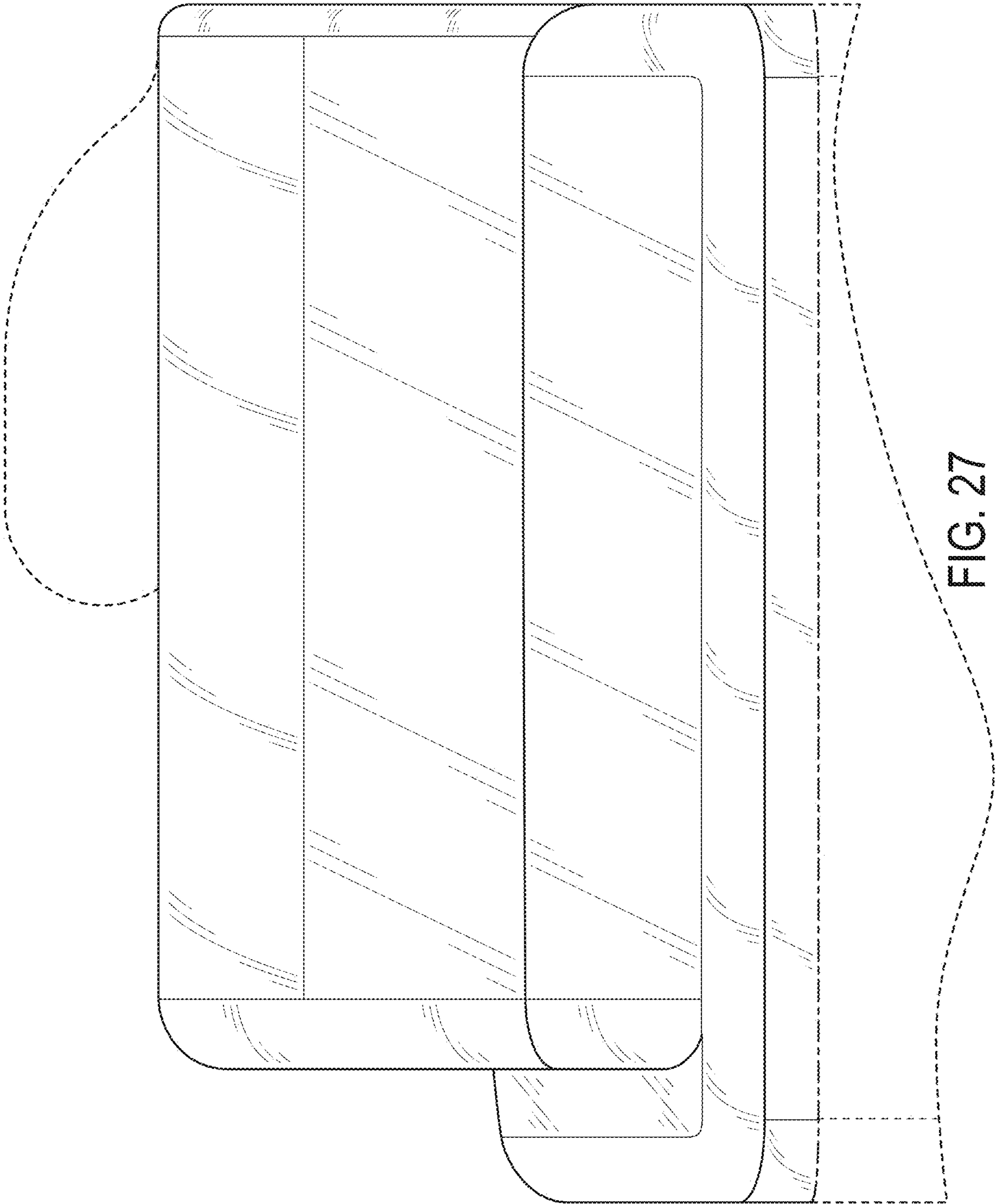


FIG. 26



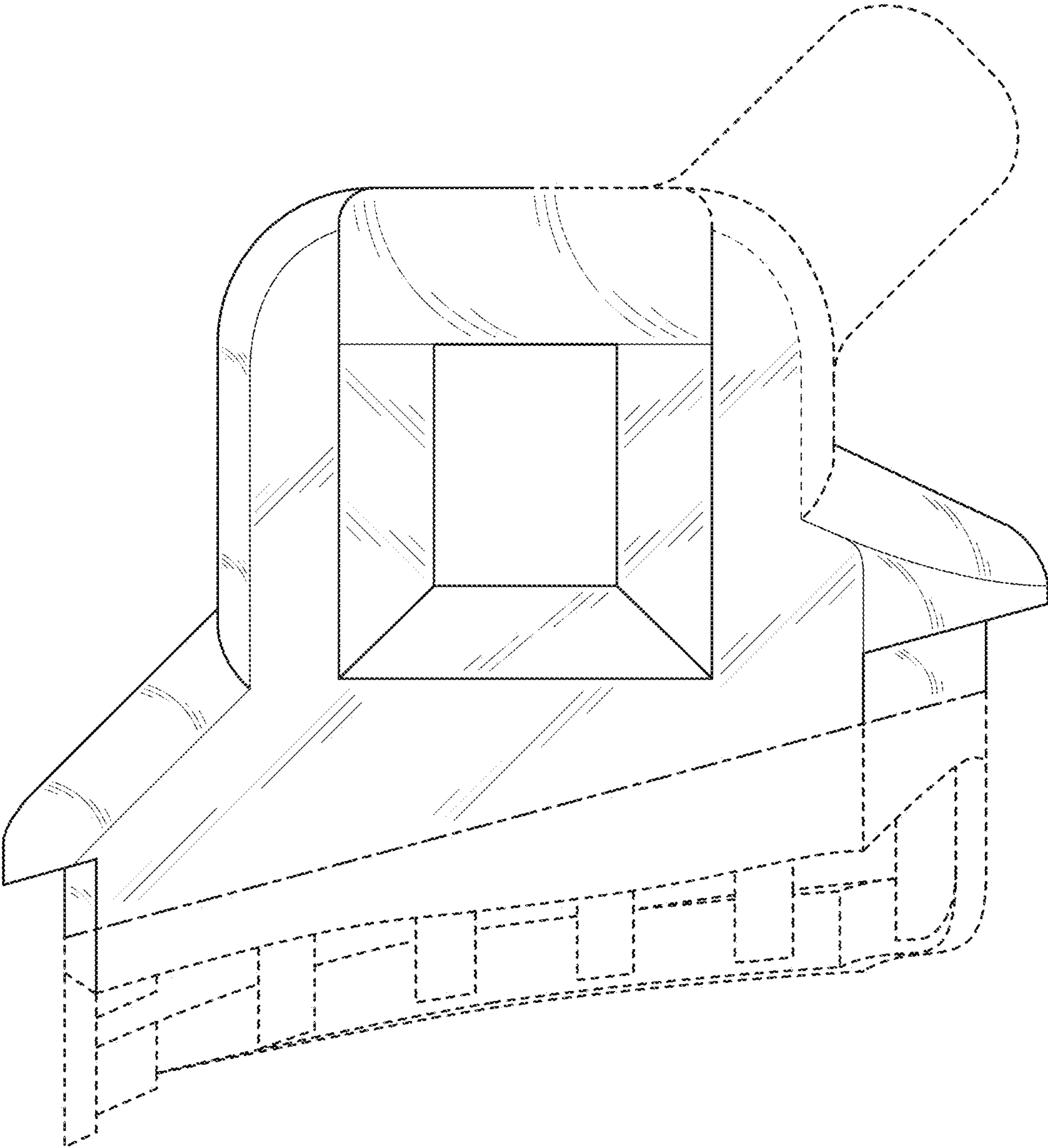


FIG. 28

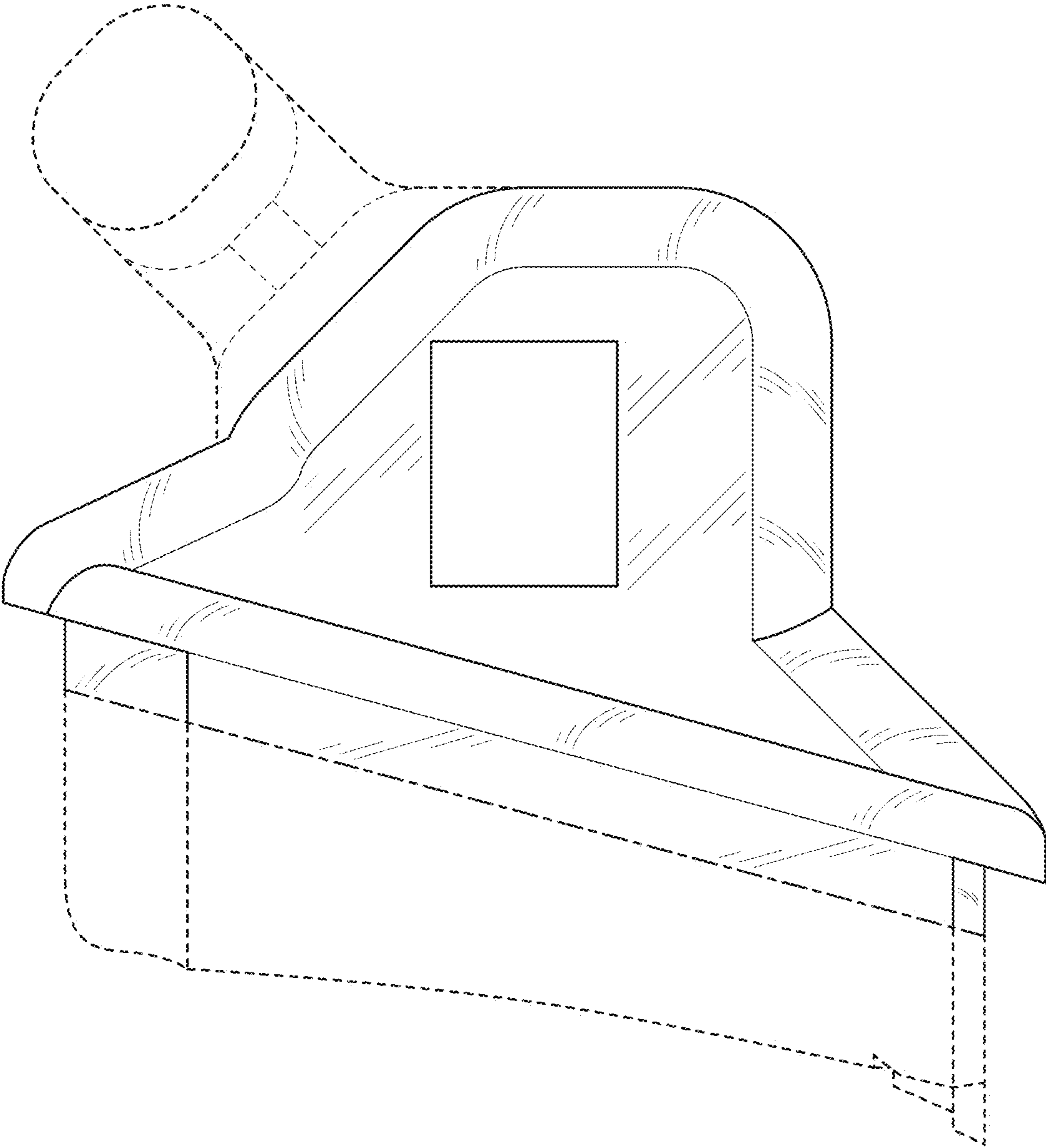


FIG. 29

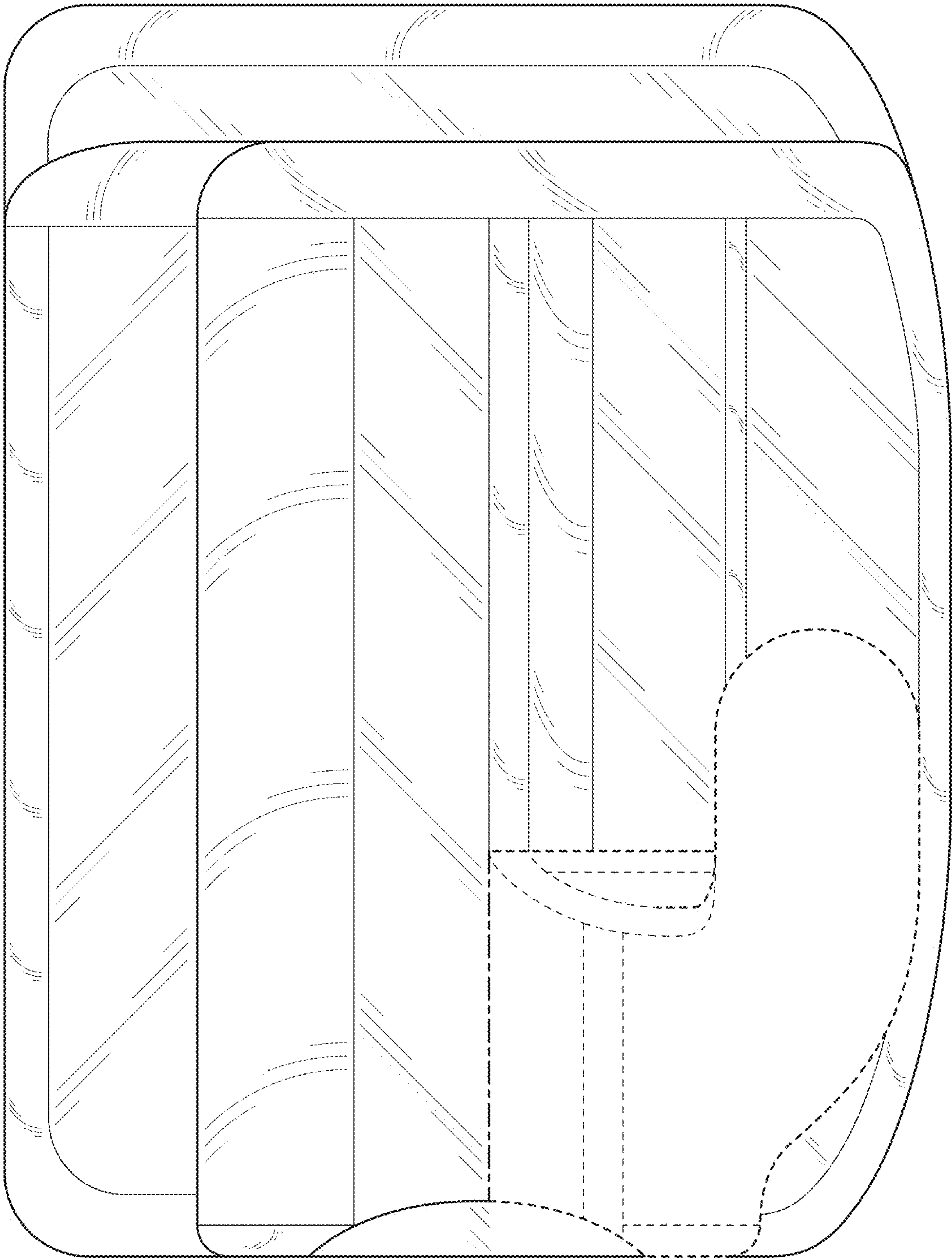


FIG. 30

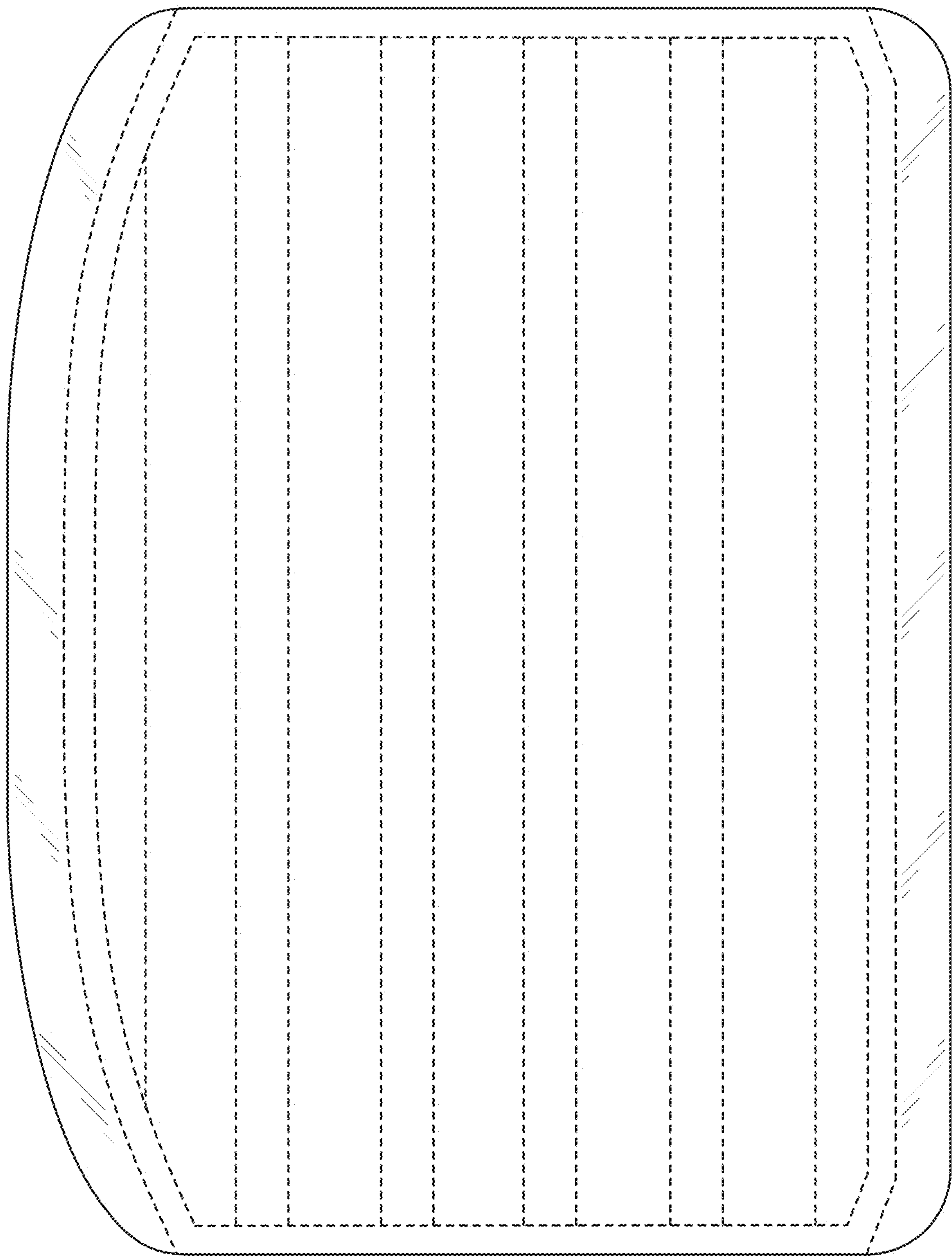


FIG. 31

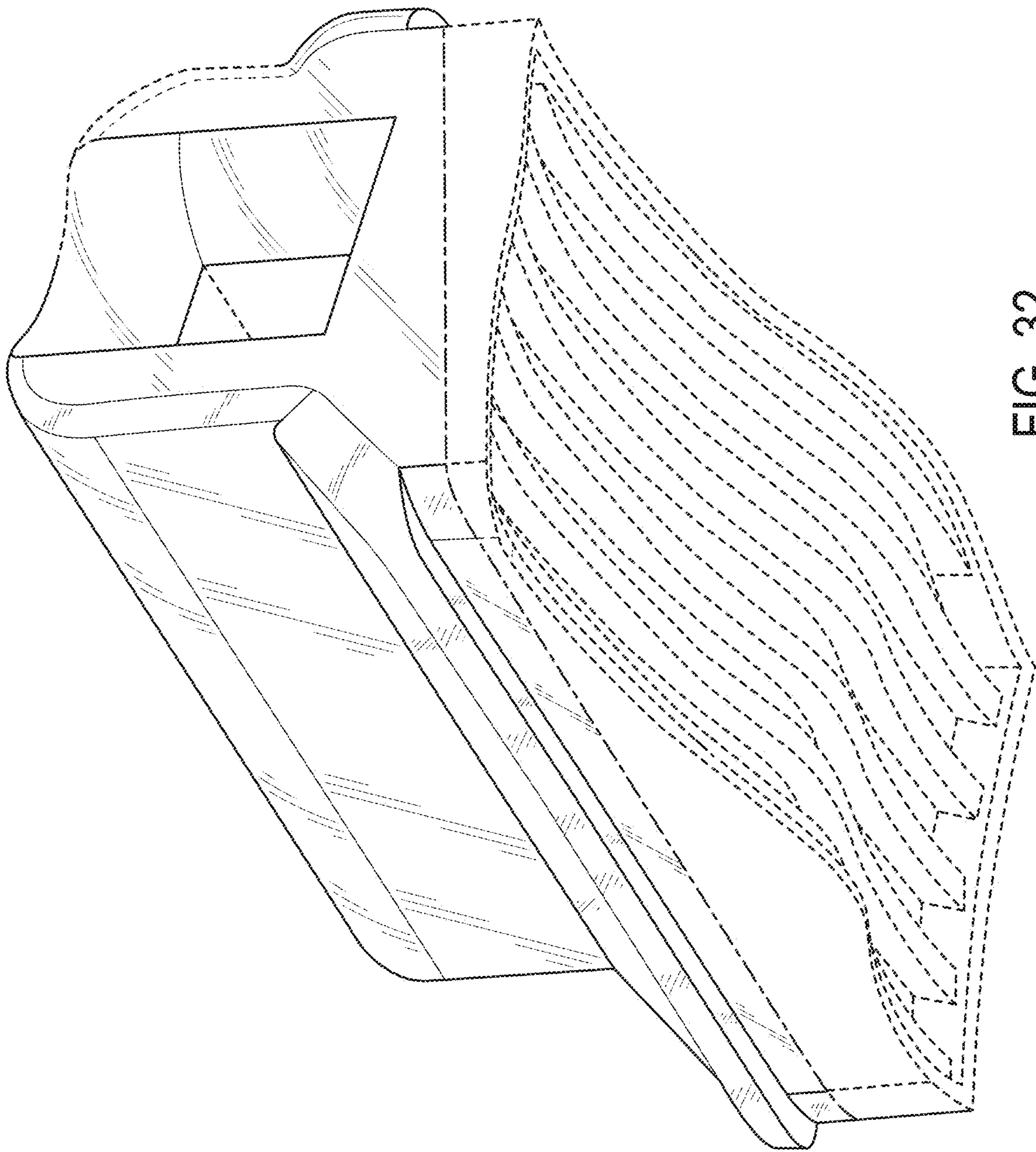


FIG. 32