



US0D1010091S

(12)

United States Design Patent

Maw et al.

(10)

Patent No.:

US D1,010,091 S

(45)

Date of Patent:

** Jan. 2, 2024

(54) FILTER CARTRIDGE

(71) Applicant: SOCLEAN, INC., Peterborough, NH (US)

(72) Inventors: Kurt Michael Maw, Salem, MA (US); Robert A. Charles, New Boston, NH (US)

(73) Assignee: SOCLEAN, INC., Peterborough, NH (US)

(**) Term: 15 Years

(21) Appl. No.: 29/870,487

(22) Filed: Jan. 27, 2023

Related U.S. Application Data

(63) Continuation of application No. 29/733,034, filed on Apr. 29, 2020, now Pat. No. Des. 979,031.

(51) LOC (14) Cl. 23-04

(52) U.S. Cl. USPC D23/365; D23/209; D24/162

(58) Field of Classification Search USPC D23/209, 233, 248, 249, 253, 259–269, D23/332–336, 341, 351–366, 370, 385, D23/386, 387, 388, 390, 393, 397, 411, D23/412; D24/129, 162; D25/41.1, D25/119–125, 136; D8/354, 376, 377, D8/382, 396; D14/125, 188, 194, 195, D14/204, 221, 228, 240, 253, 348, 350, D14/358, 496; D21/332; D26/26, 40, D26/46, 49, 97, 110, 123, 124; D11/143, D11/146, 152, 153; D9/432 CPC A61L 2209/11; A61L 2209/14; A61L 2209/133; A61L 9/03; A61L 9/04; A61L 9/05; A61L 9/12; A61L 9/14; A61L 9/012; A61L 9/015; A61L 9/048; A61L 9/122; A61L 9/127; A61L 9/205; F24F 13/18; F24F 13/20; F24F 2221/14; F24F 2221/17; F24F 6/00; F24F 6/06; F24F

6/043; F24F 1/00; F24F 1/02; F24F 1/022; B01D 46/00; B01D 46/001; B01D 46/0002; B01D

(Continued)

(56) References Cited

U.S. PATENT DOCUMENTS

D858,731 S * 9/2019 Hyon A61L 9/00 D23/365
D884,141 S * 5/2020 Cannon D23/366

(Continued)

Primary Examiner — Gino Colan
Assistant Examiner — David OBrien
(74) Attorney, Agent, or Firm — Grossman, Tucker, Perreault & Pfleger, PLLC

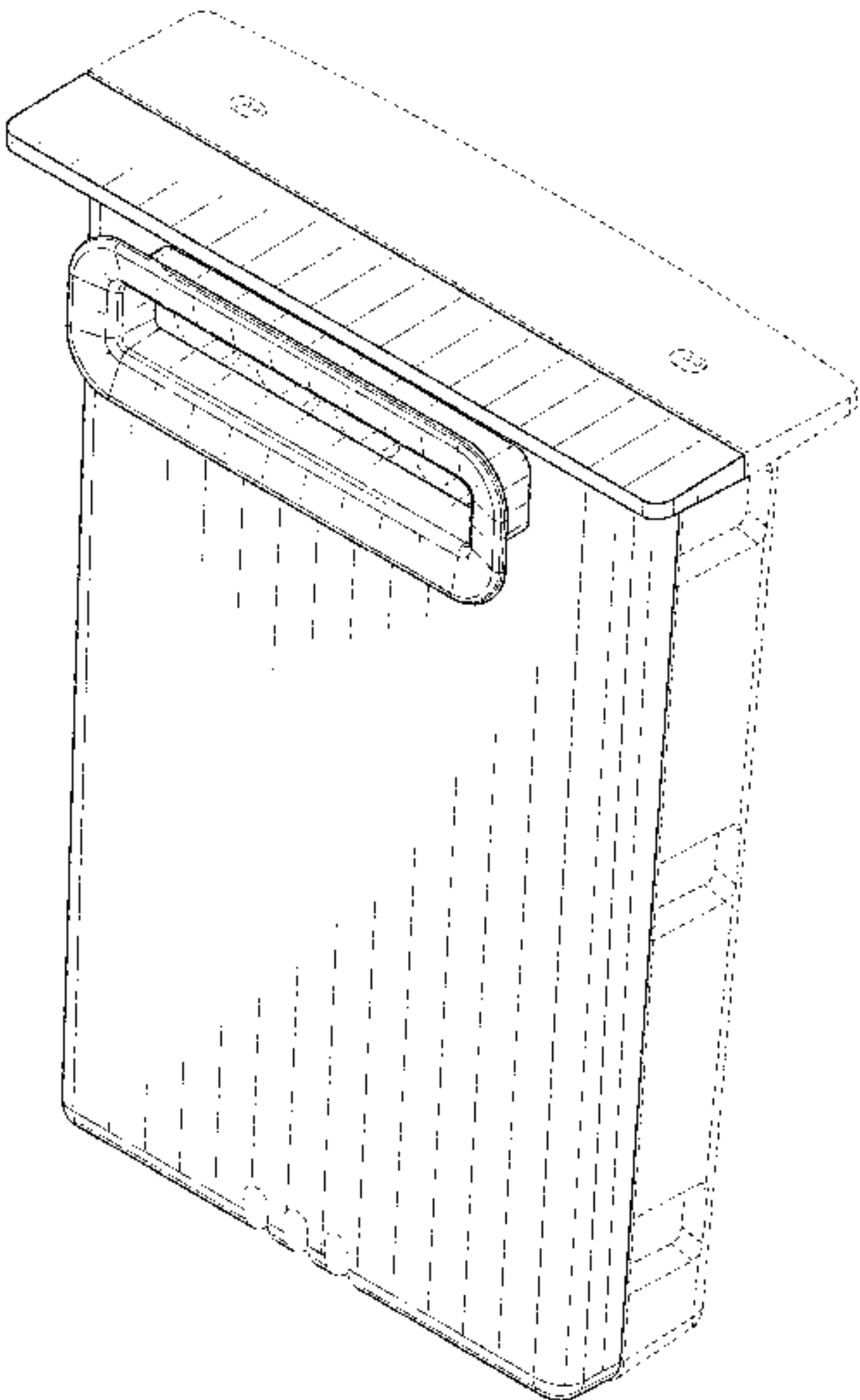
(57) CLAIM

The ornamental design of a filter cartridge, as shown and described.

DESCRIPTION

FIG. 1 is a front view of a filter cartridge, showing the new design;
FIG. 2 is a rear view thereof;
FIG. 3 is a left side view thereof;
FIG. 4 is a right side view thereof;
FIG. 5 is a bottom view thereof;
FIG. 6 is a top view thereof;
FIG. 7 is a front top right perspective view thereof;
FIG. 8 is a front top left perspective view thereof;
FIG. 9 is a rear top left perspective view thereof;
FIG. 10 is a rear top right perspective view thereof;
FIG. 11 is a front bottom right perspective view thereof;
FIG. 12 is a front bottom left perspective view thereof;
FIG. 13 is a rear bottom left perspective view thereof; and,
FIG. 14 is a rear bottom right perspective view thereof.
Any broken lines in the figures show portions of the filter cartridge that form no part of the claimed design.

1 Claim, 14 Drawing Sheets



(58) **Field of Classification Search**

CPC 46/0004; B01D 46/0005; B01D 46/0012;
B01D 46/0015; B01D 46/0016; B01D
46/02; B01D 46/10; B01D 46/026; B01D
46/18; B01D 46/24; B01D 46/2411;
B01D 46/2418; B01D 46/2425; B01D
46/2429; B01D 46/2451; B01D 46/2422;
B01D 46/2455; B01D 46/247; B01D
46/2478; B01D 46/2486; B01D 46/2488;
B01D 46/249; B01D 46/2492; B01D
46/2494; B01D 46/52; B01D 46/521;
B01D 46/522; B01D 46/523; B01D
46/527; B01D 46/54; B01D 46/58; B01D
46/645; B01D 35/303; B01D 27/00;
B01D 27/04; B01D 27/06; B01D 27/08;
A01M 1/2044; Y10S 261/17; Y10S
261/88; Y10S 261/89

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D894,363	S	*	8/2020	Cannon		D23/366
D907,209	S	*	1/2021	Maw		D24/162
D907,210	S	*	1/2021	Maw		D24/162
D941,473	S	*	1/2022	Maw		D24/162
D977,610	S	*	2/2023	Maw		D23/209
D979,031	S	*	2/2023	Maw		D23/365

* cited by examiner

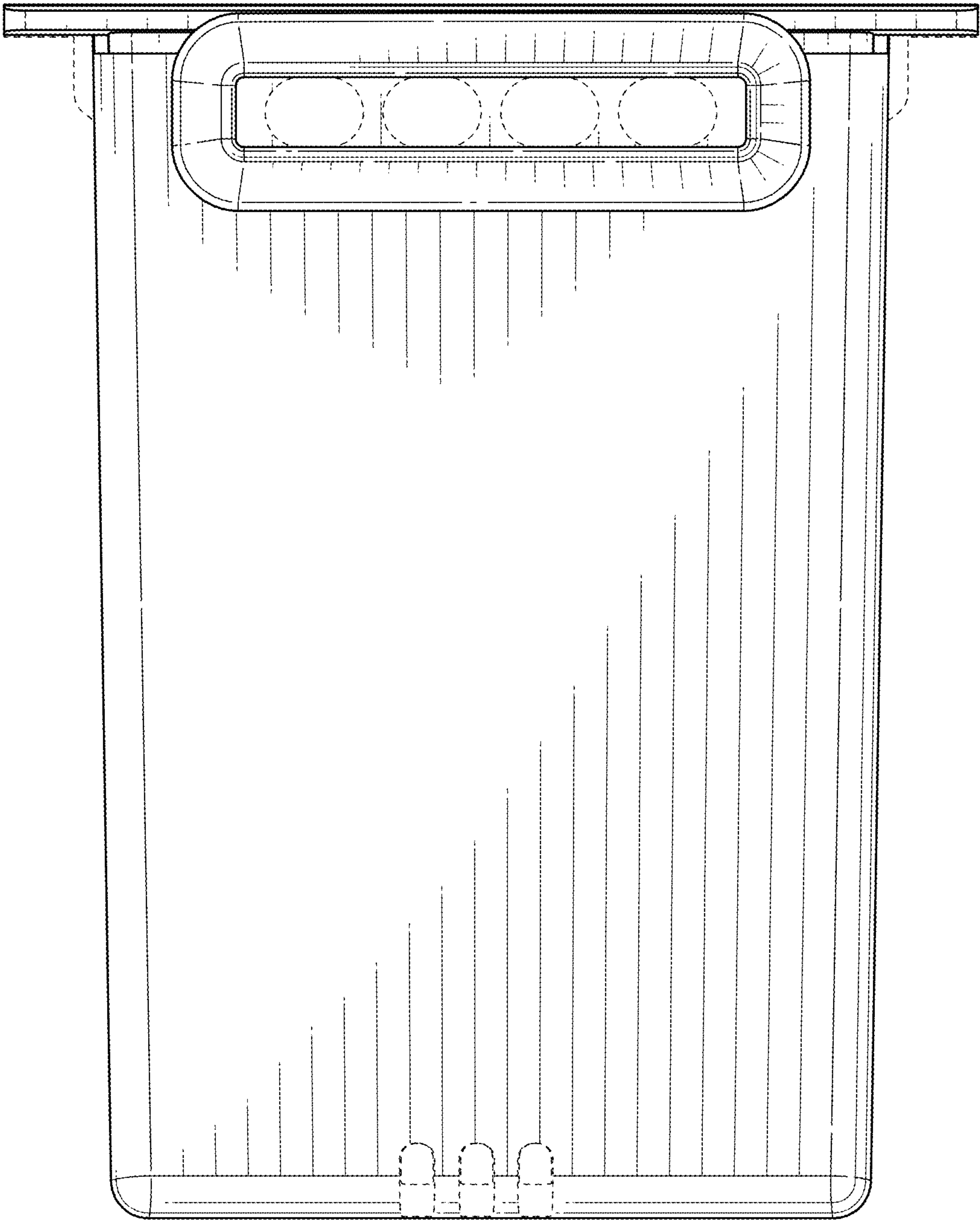


FIG. 1

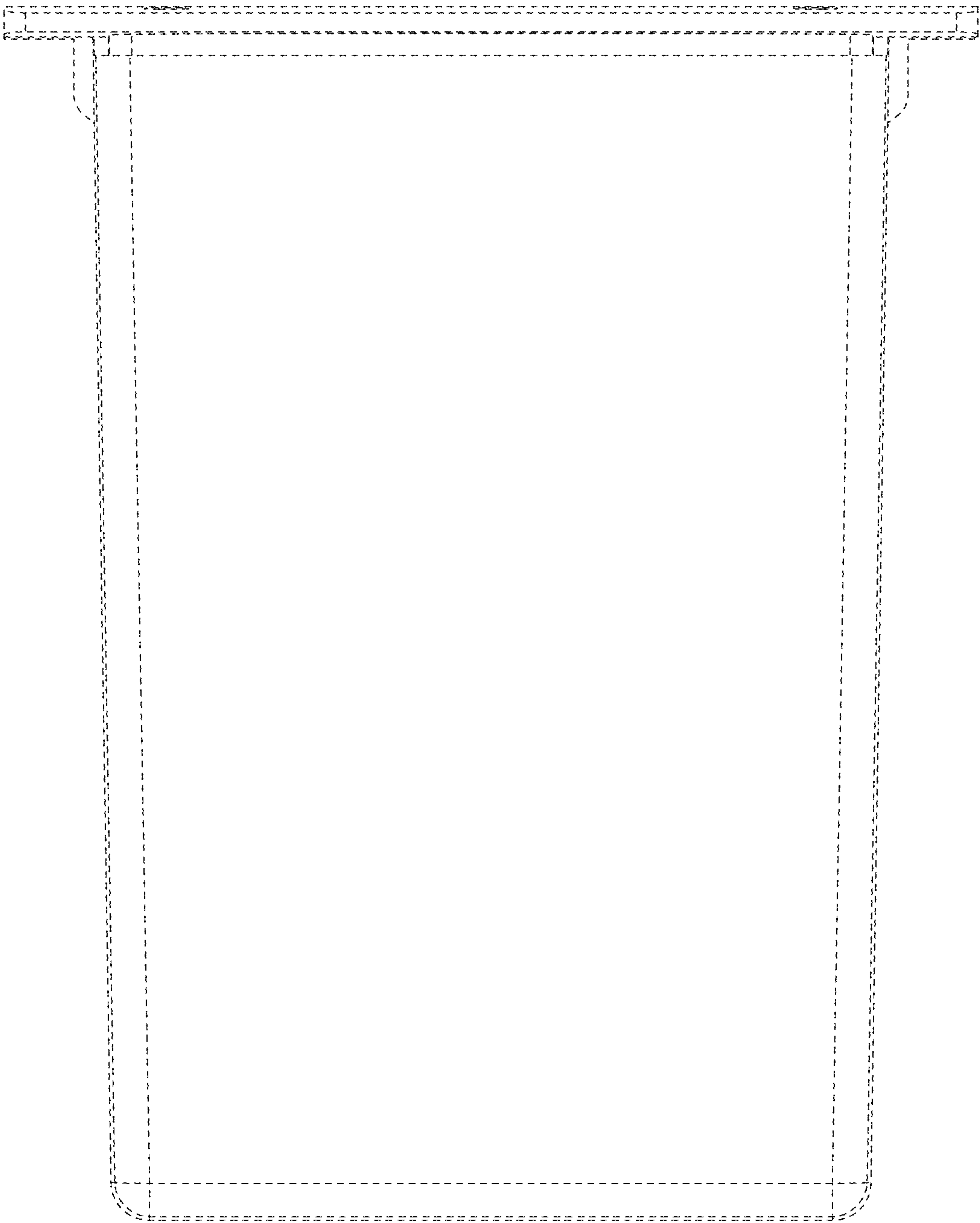


FIG. 2

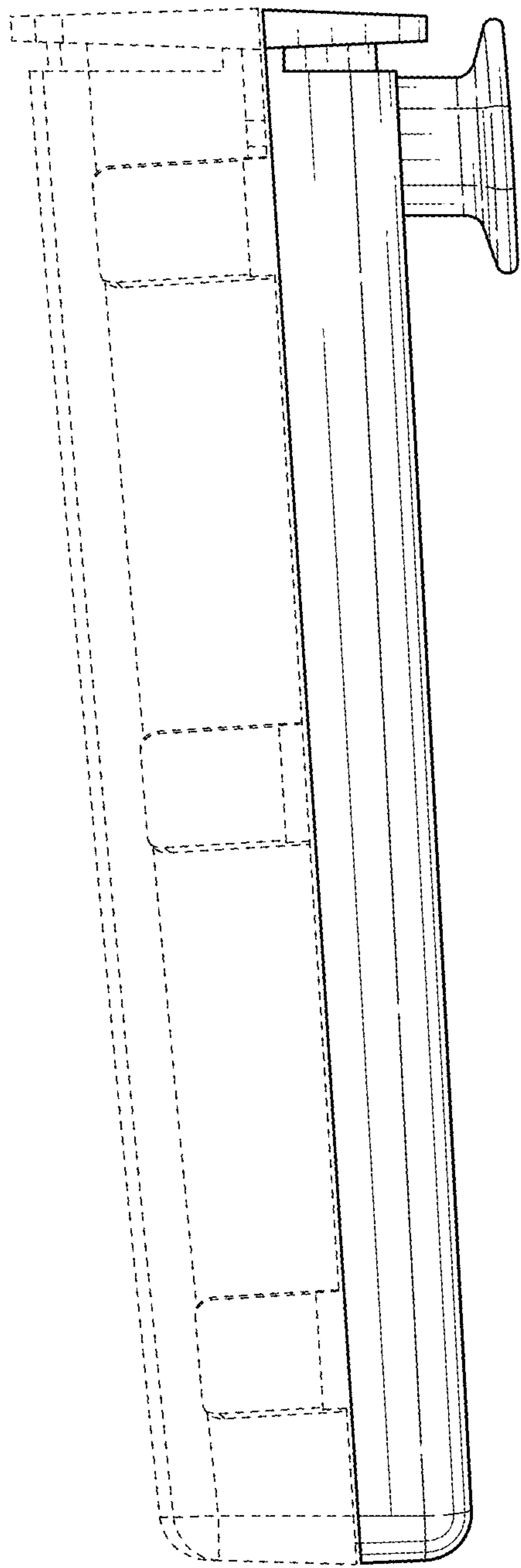


FIG. 3

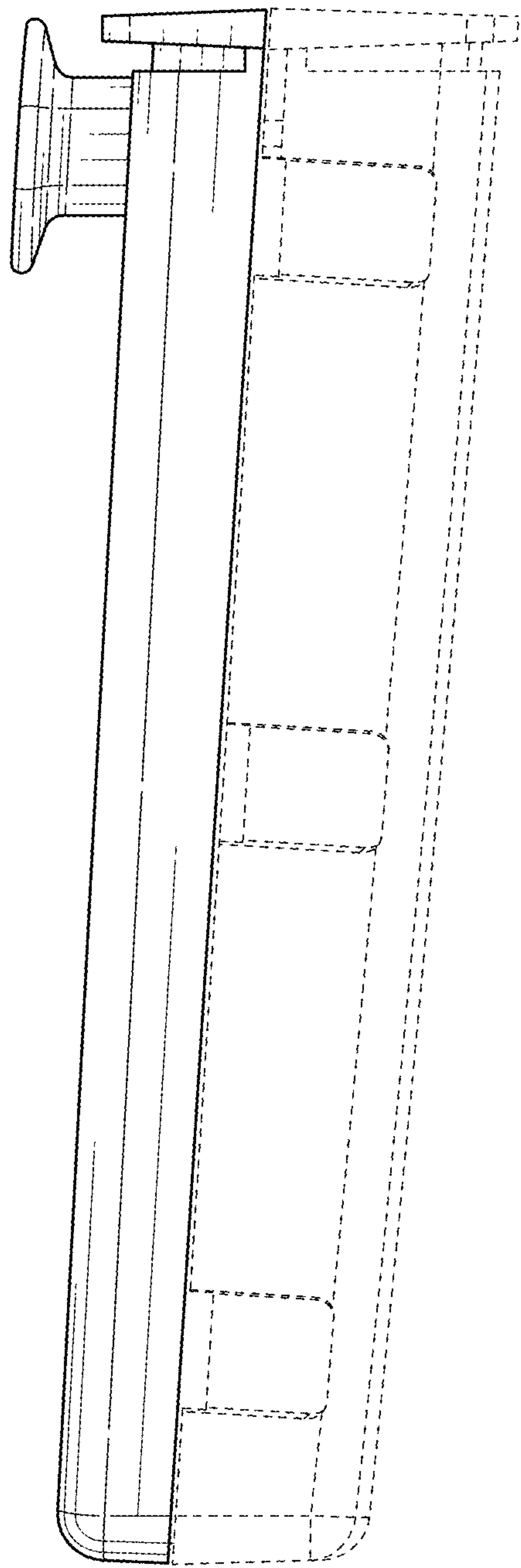


FIG. 4

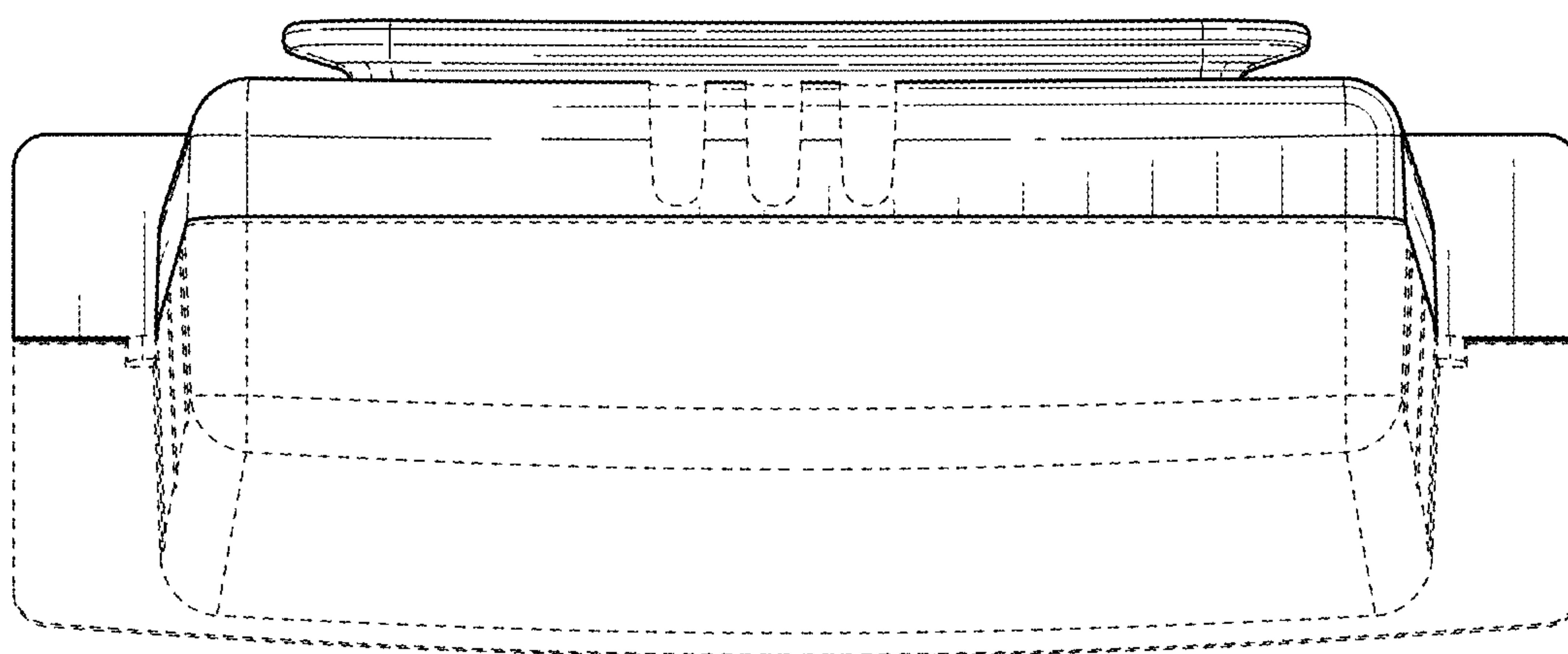


FIG. 5

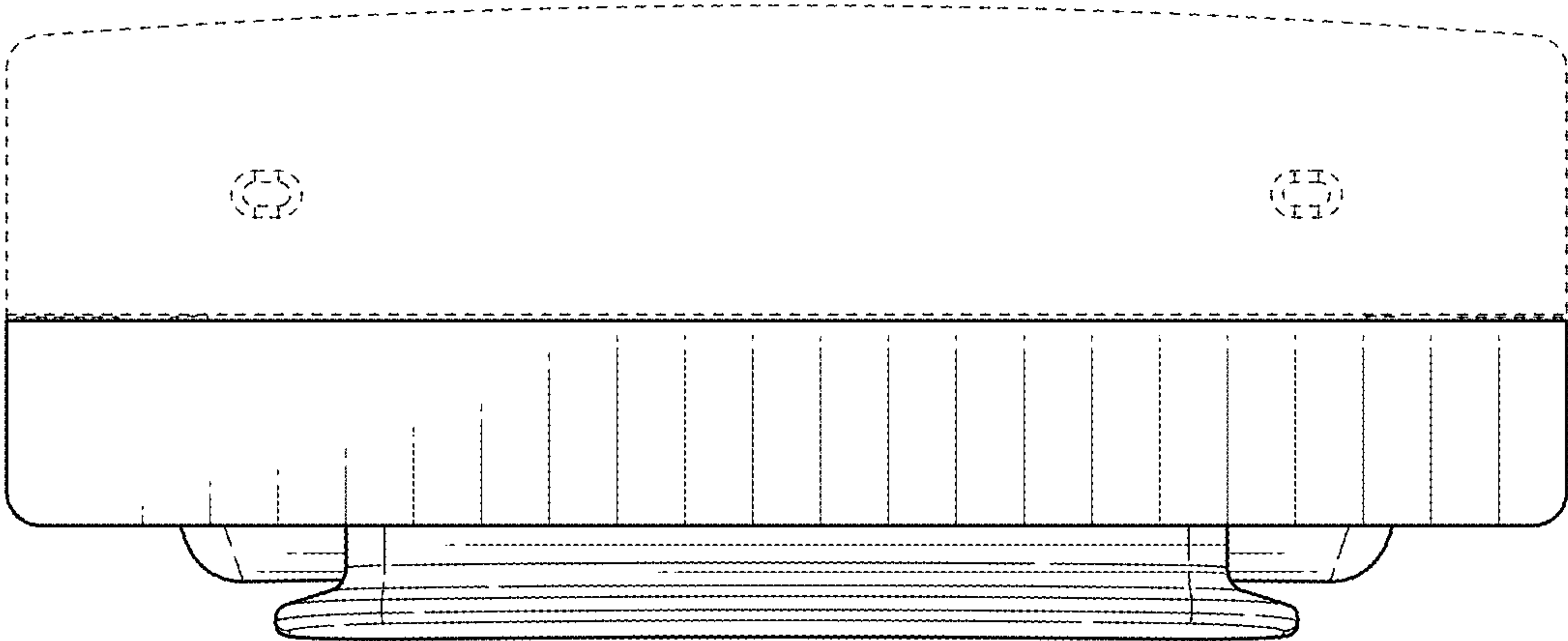


FIG. 6

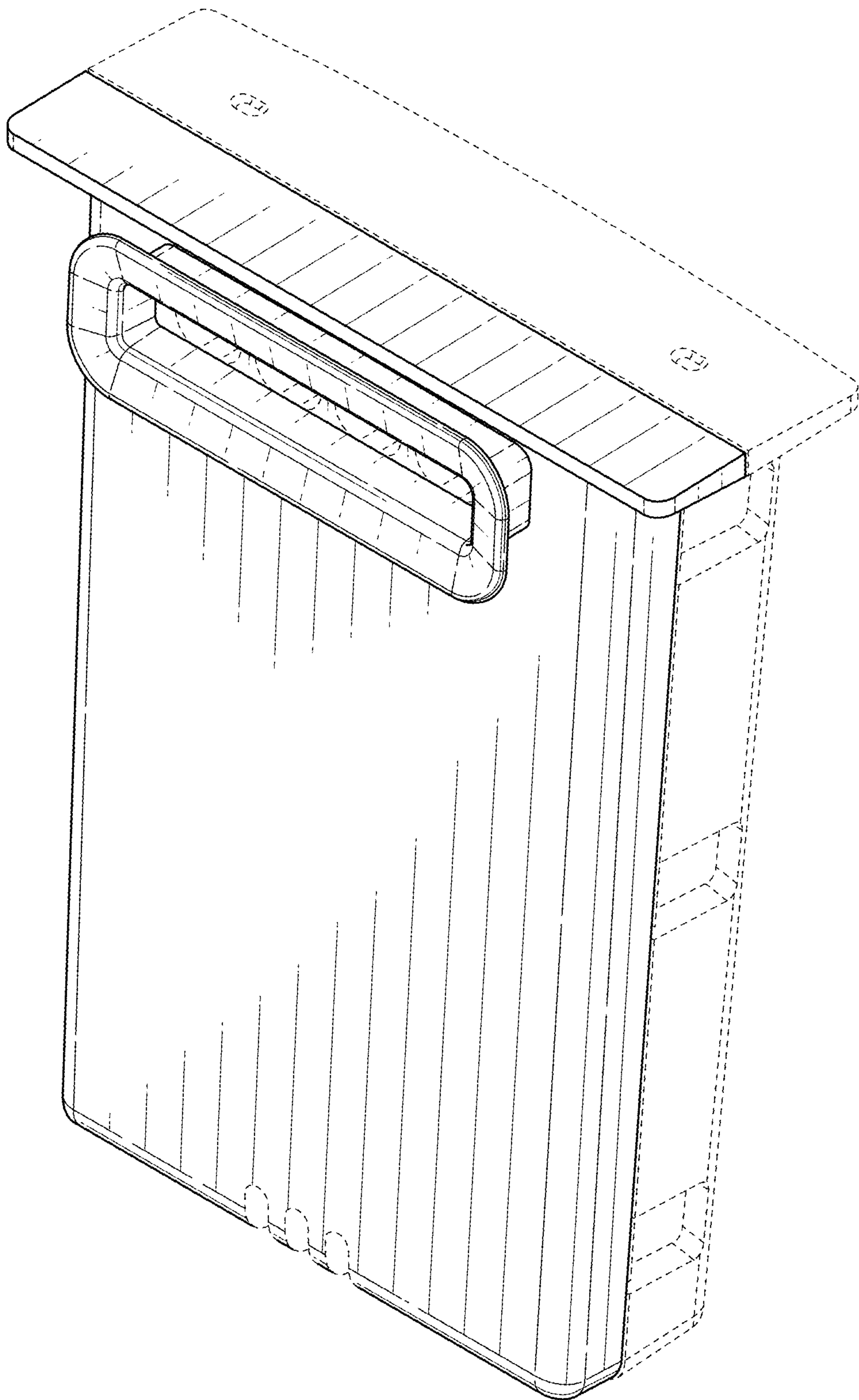


FIG. 7

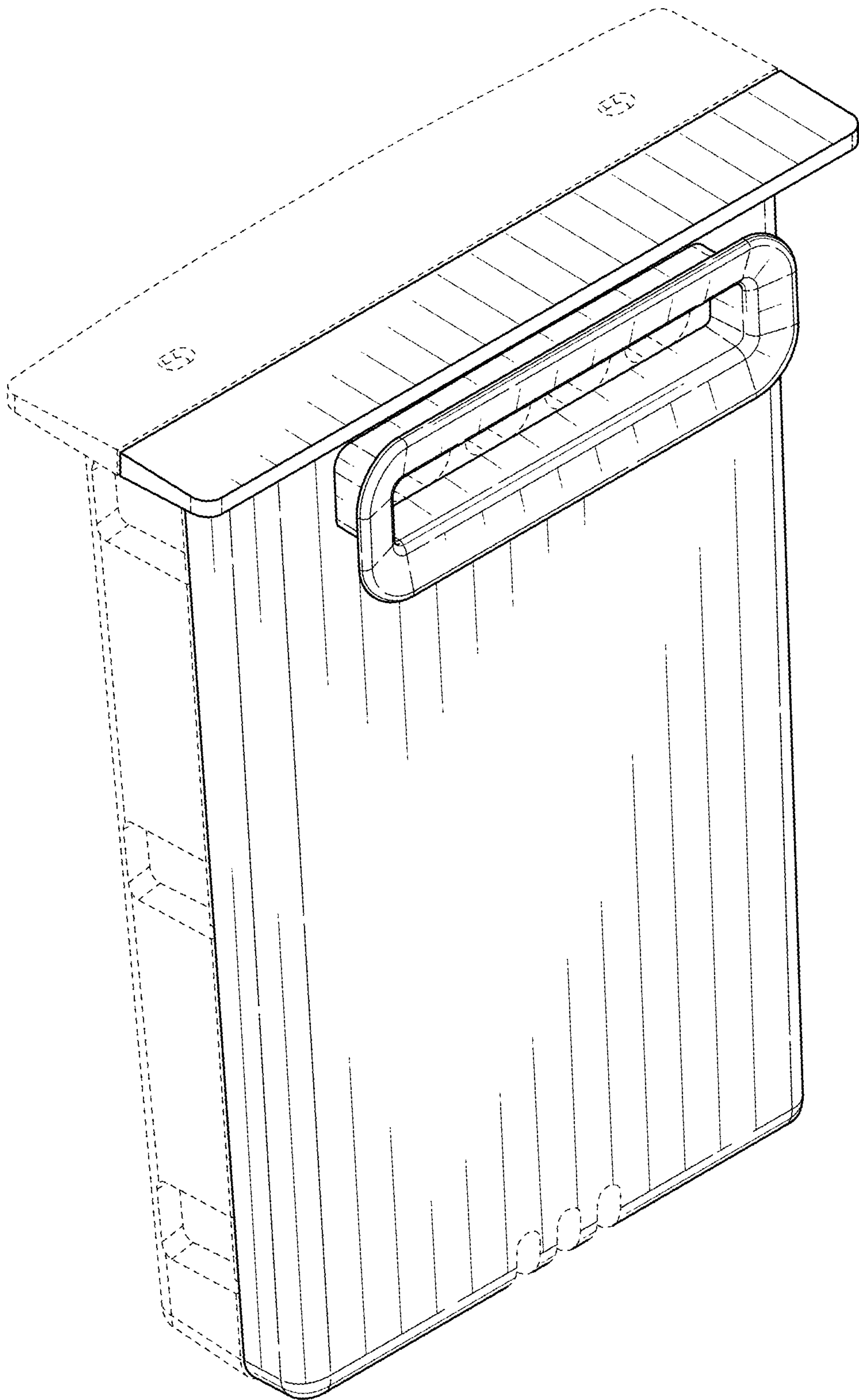


FIG. 8

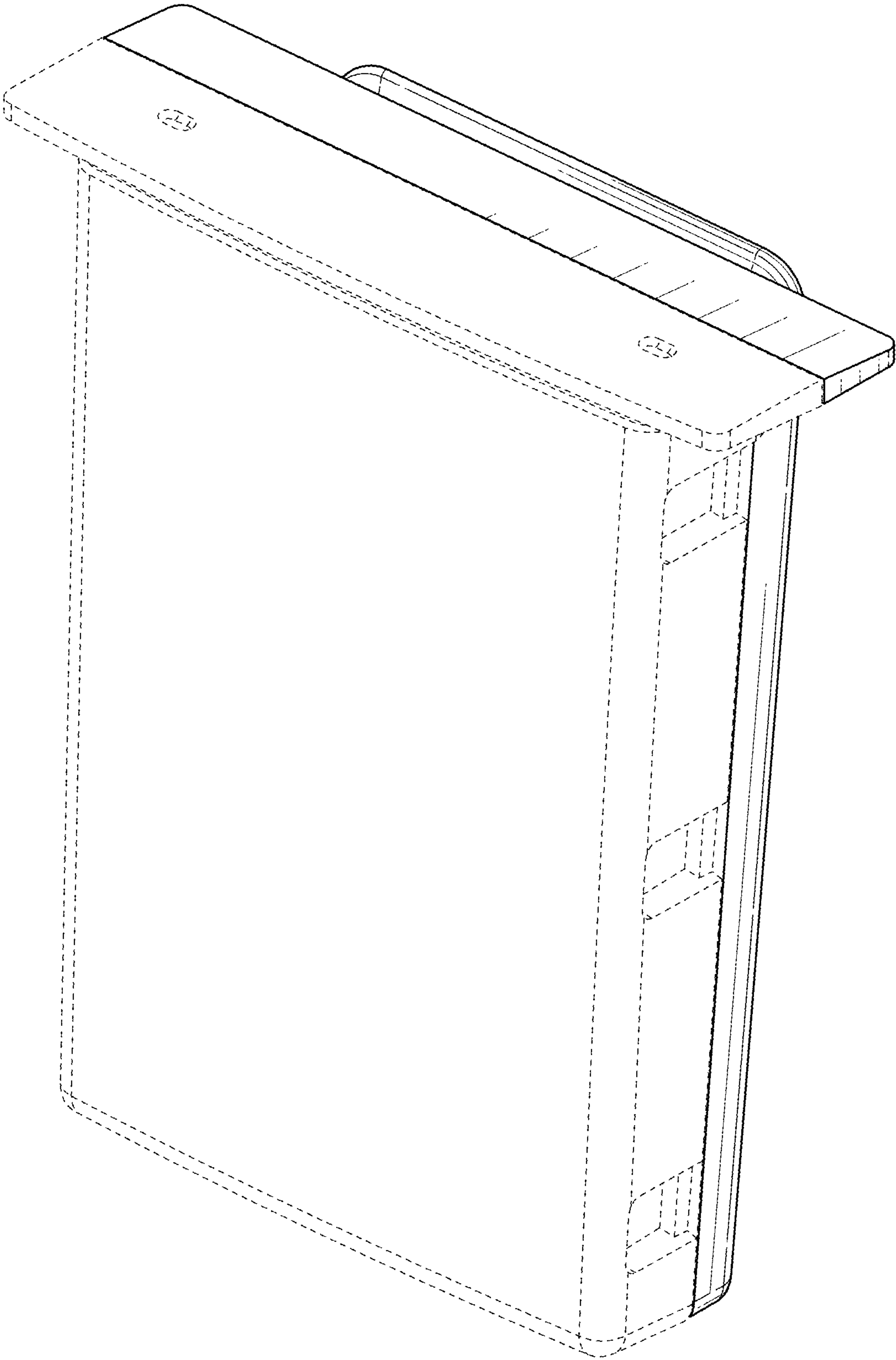


FIG. 9

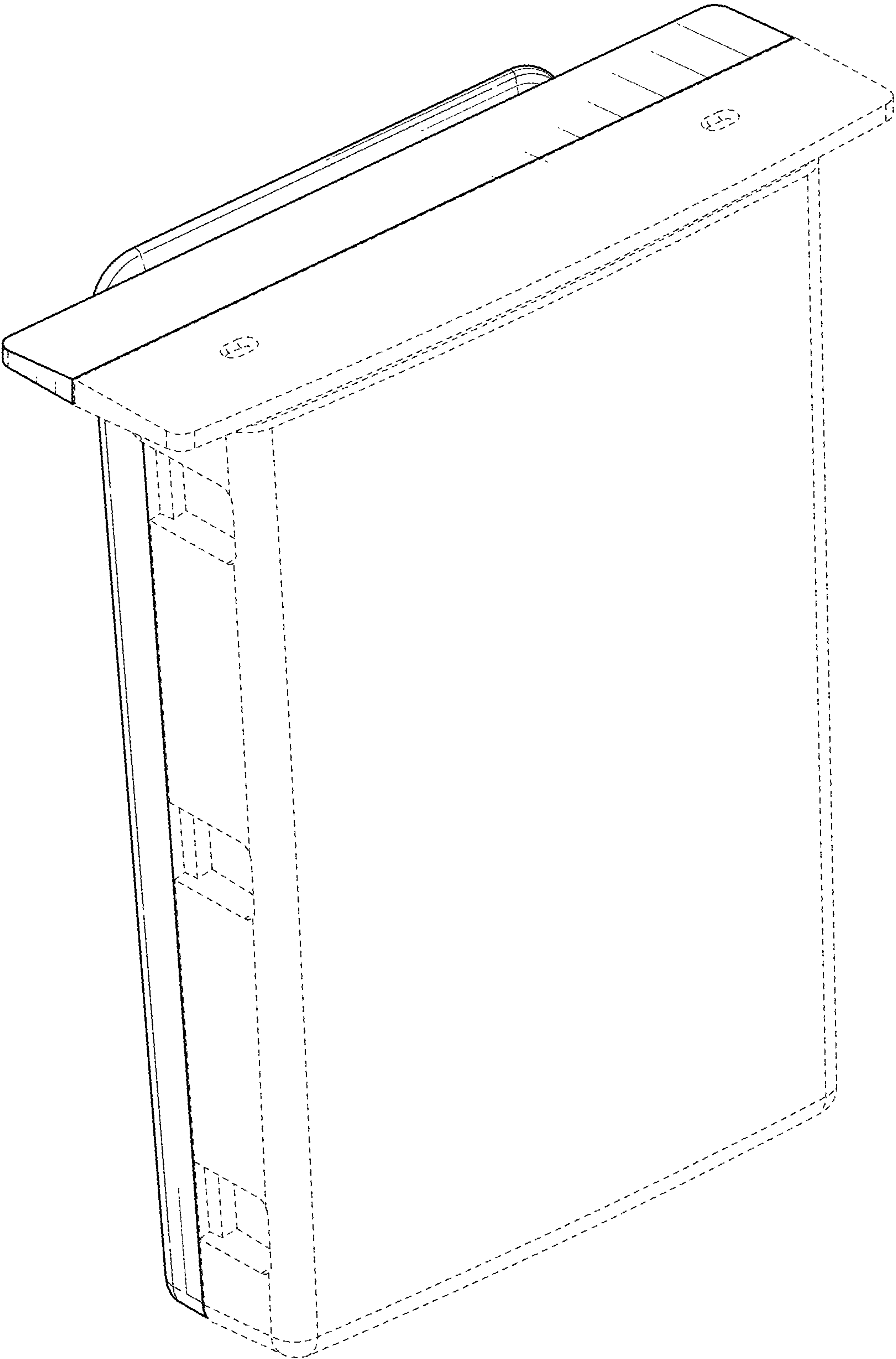


FIG. 10

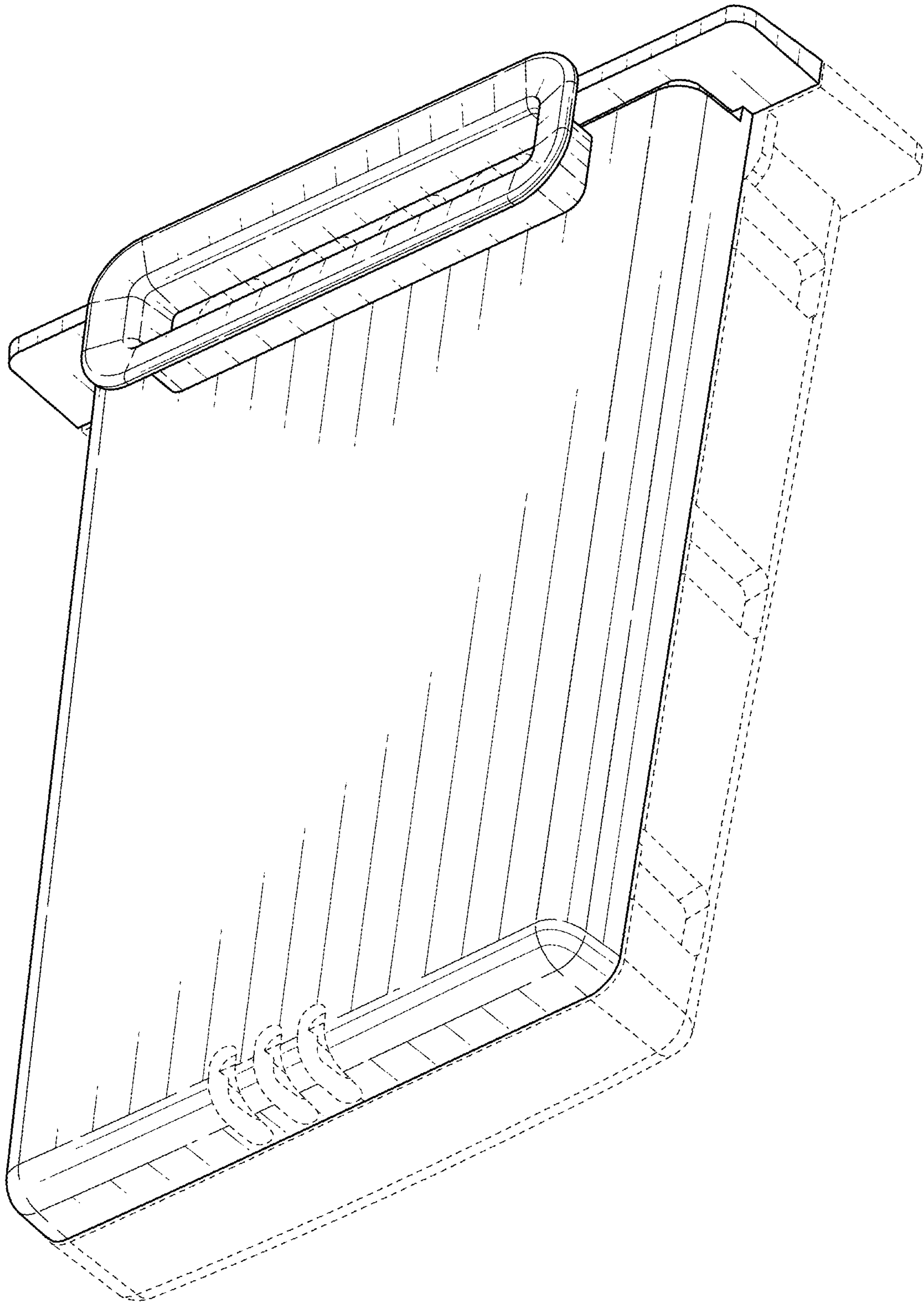


FIG. 11

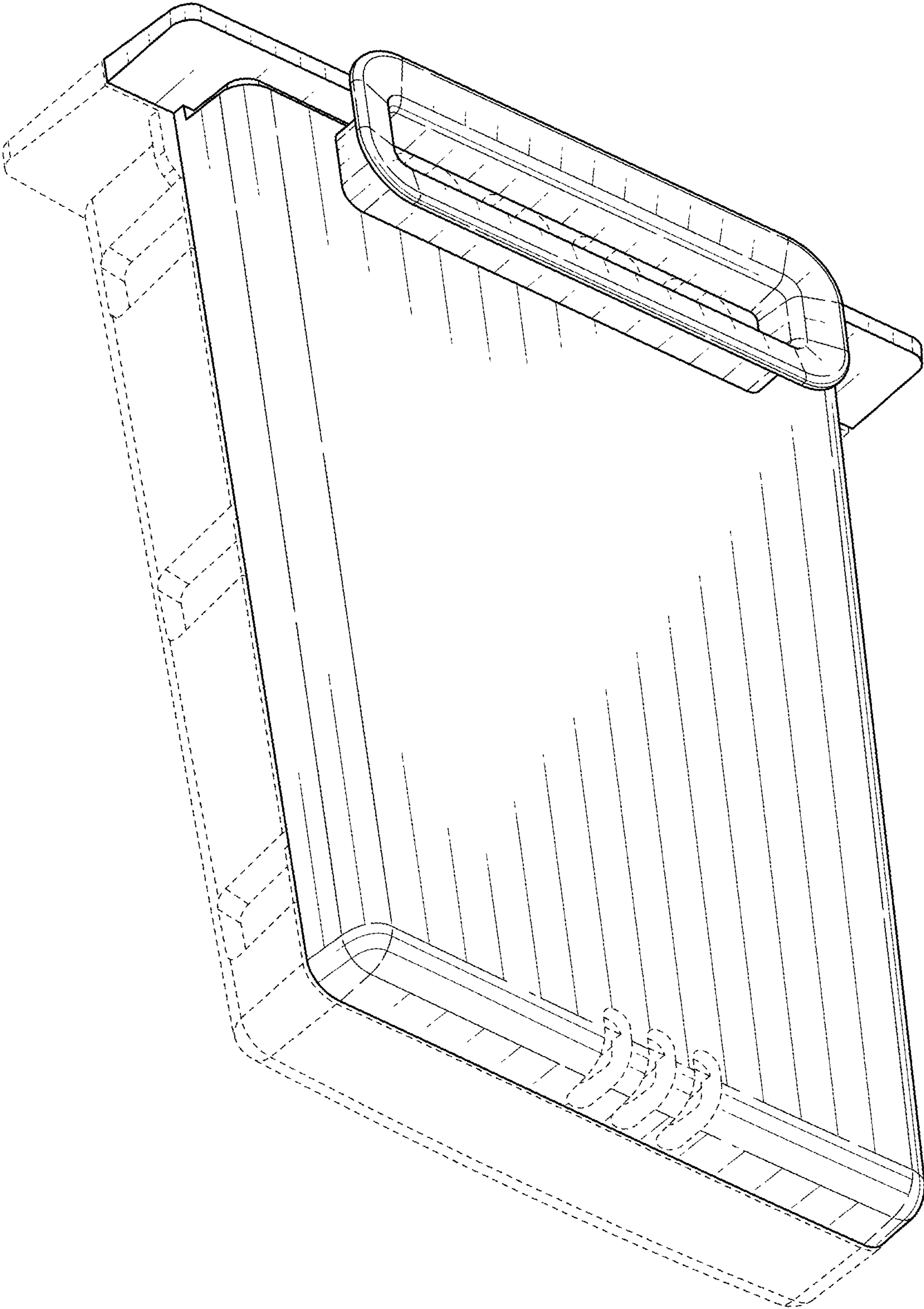


FIG. 12

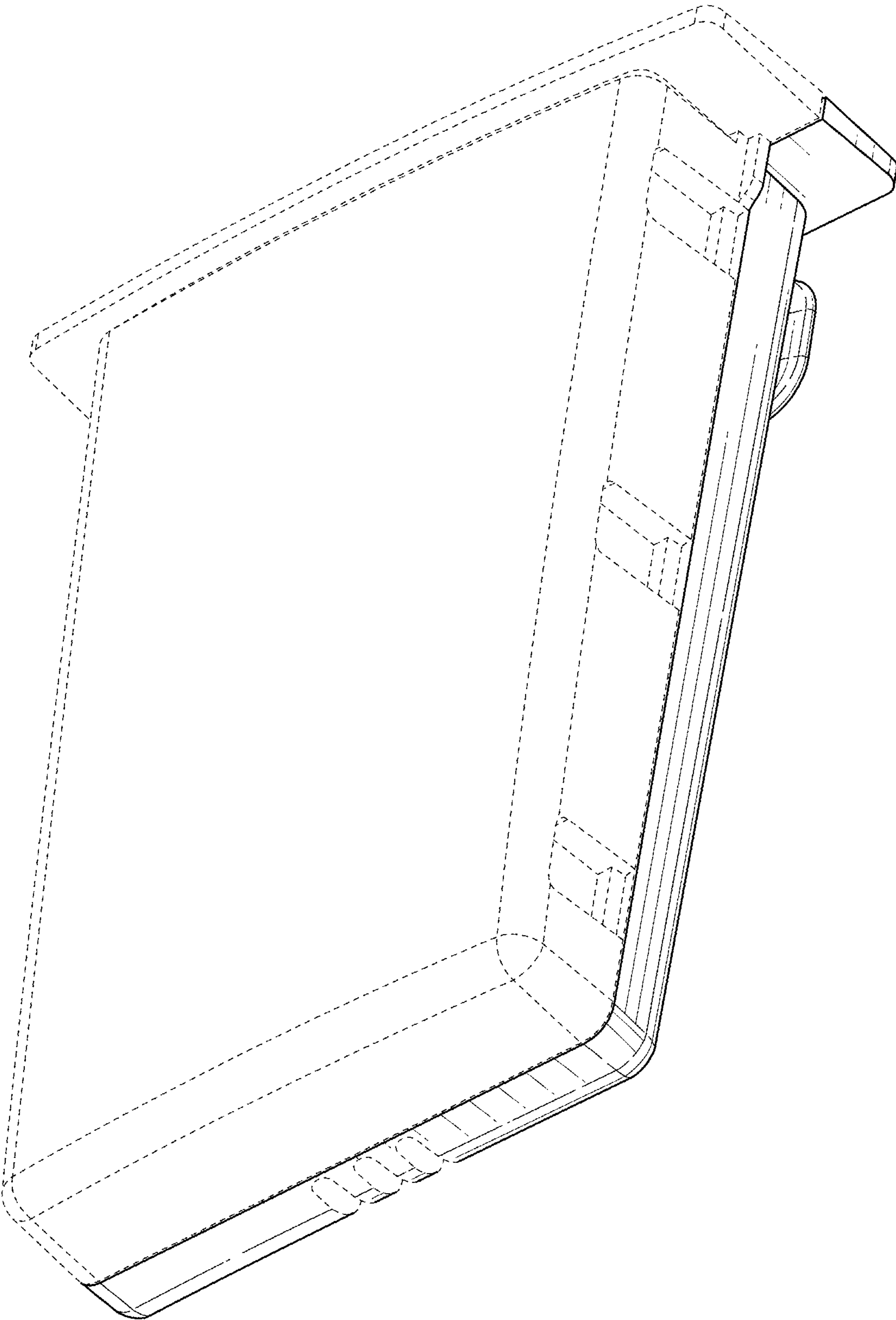


FIG. 13

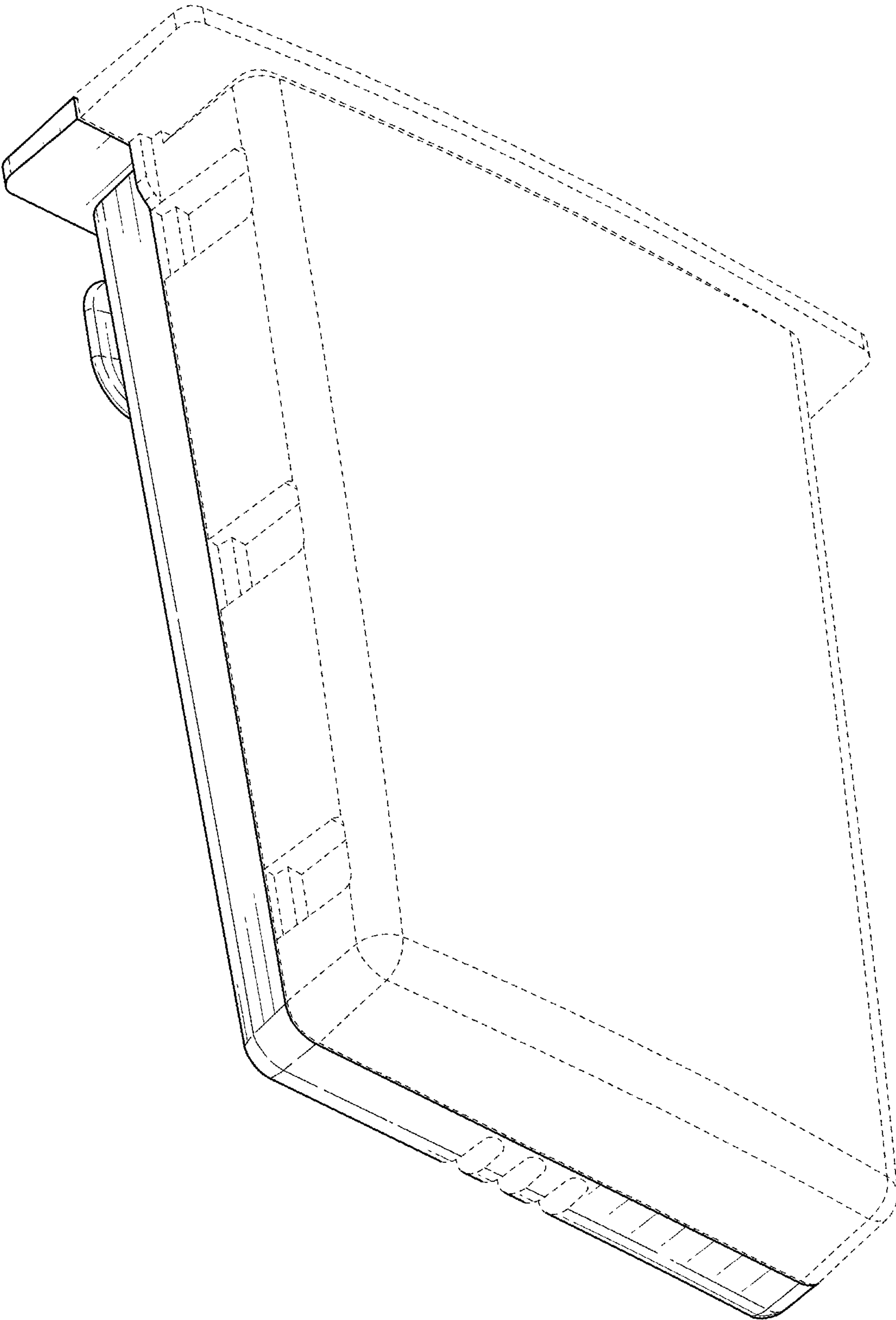


FIG. 14