



US00D860570S

(12) **United States Design Patent** (10) **Patent No.:** **US D860,570 S**
Chen (45) **Date of Patent:** **** Sep. 17, 2019**

(54) **SENSOR BIN** 8,074,824 B1 * 12/2011 Roby-Wilson B65F 1/068
220/495.08
(71) Applicant: **EKO DEVELOPMENT LTD.,** D657,108 S 4/2012 Yang et al.
Guangzhou (CN) D657,109 S 4/2012 Liao
D675,802 S * 2/2013 Yang D34/7
(72) Inventor: **Yizhi Chen,** Guangzhou (CN) 8,820,566 B2 9/2014 Ude
D719,313 S 12/2014 Kao
D720,513 S 12/2014 Yang et al.
(73) Assignee: **EKO Development Limited,** D725,861 S 3/2015 Yang et al.
Guangzhou (CN) D730,008 S 5/2015 Yang et al.
D754,413 S 4/2016 Wall
(**) Term: **15 Years** (Continued)

(21) Appl. No.: **29/645,923**
(22) Filed: **Apr. 30, 2018**
(51) **LOC (12) Cl.** **09-09**
(52) **U.S. Cl.**
USPC **D34/7**
(58) **Field of Classification Search**
USPC D34/1, 6, 7, 11
CPC Y10S 220/908; B65F 1/00; B65F 1/002;
B65F 1/1426; B65F 1/1638; B65F
2001/1653
See application file for complete search history.

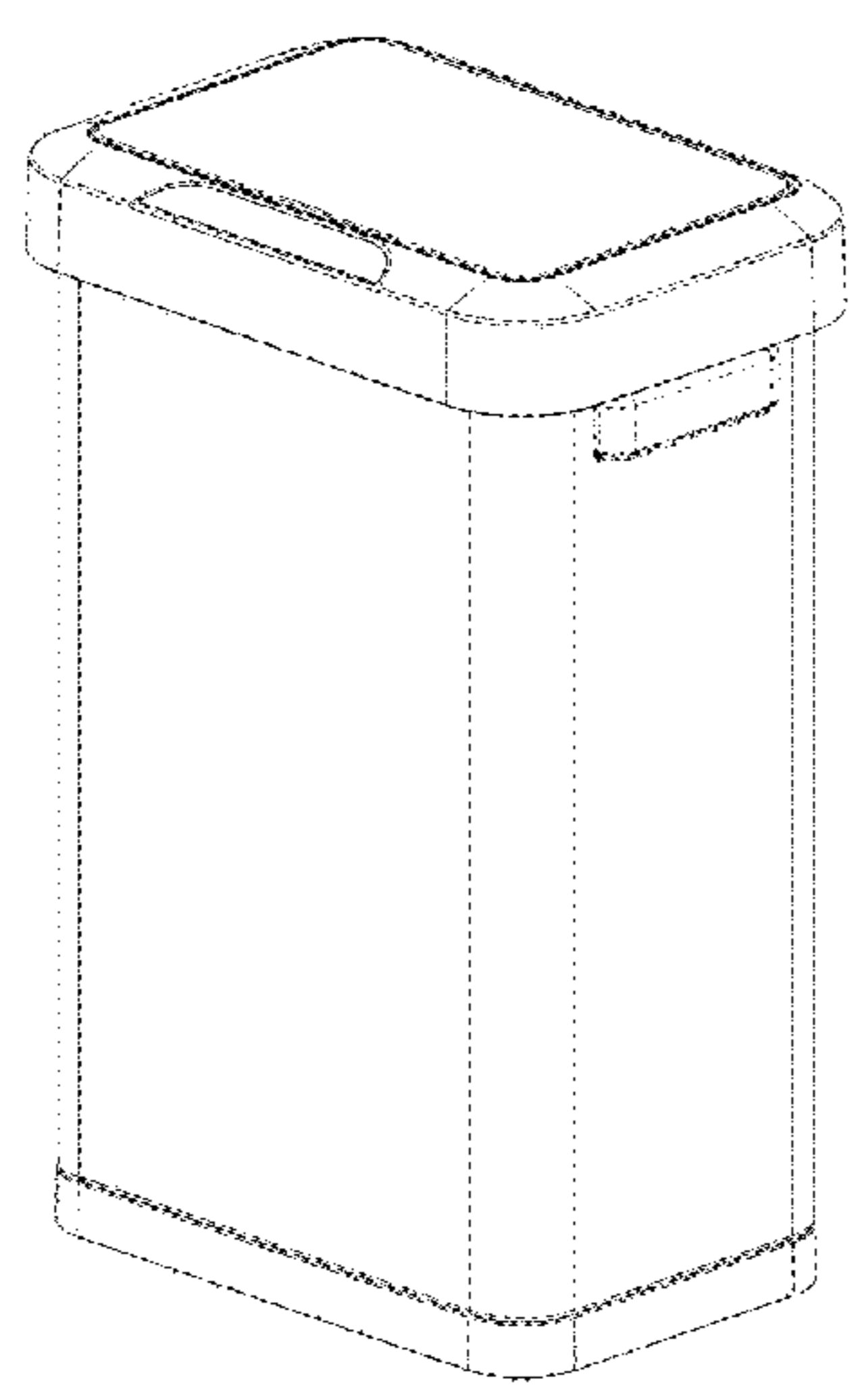
(56) **References Cited**
U.S. PATENT DOCUMENTS
D246,090 S 10/1977 Gault
D335,562 S 5/1993 Evans
5,242,074 A 9/1993 Conaway et al.
D343,709 S 1/1994 Doty et al.
D380,613 S * 7/1997 Apps D3/307
6,345,725 B1 2/2002 Lin
D472,357 S 3/2003 Stewart
D482,169 S 11/2003 Lin
D527,155 S 8/2006 Fankhauser
D552,321 S 10/2007 Yang et al.
D571,520 S 6/2008 Lin
D627,533 S 11/2010 Yang et al.
D634,911 S * 3/2011 Yang D34/7
D644,390 S * 8/2011 Smeets D34/7
D644,806 S 9/2011 Yang et al.

OTHER PUBLICATIONS
Belson Outdoors "Durable Two-Piece Fiberglass Trash Receptacle",
<http://www.belson.com/Open-Top-Lift-Off-20-Gallon-Round-Fiberglass-Trash-Can>. Jun. 6, 2017. shown in p. 1, Model FG1829
TPL.
(Continued)
Primary Examiner — Antoine Duval Davis
(74) *Attorney, Agent, or Firm* — William Dippert;
Laurence Greenberg; Werner Stemer

(57) **CLAIM**
The ornamental design for a sensor bin, as shown and described.

DESCRIPTION
FIG. 1 is a perspective view of a sensor bin, showing my new design.
FIG. 2 is a top plan view thereof.
FIG. 3 is a rear elevation view thereof.
FIG. 4 is a left-side elevation view thereof.
FIG. 5 is a front elevation view thereof.
FIG. 6 is a bottom plan view thereof; and,
FIG. 7 is a right-side elevation view thereof.
The broken lines in the drawings represent portions of the sensor bin that are for illustrative purposes only and do not form a part of the claimed design.

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D759,934 S	6/2016	Yang et al.	
D771,344 S	11/2016	Yang et al.	
D773,145 S	11/2016	Yang et al.	
D793,022 S *	7/2017	Liao	D34/7
D793,642 S	8/2017	Yang et al.	
D796,767 S *	9/2017	Chen	D34/9
D798,016 S	9/2017	Yang et al.	
2011/0220648 A1 *	9/2011	Yang	B65F 1/1638 220/211

OTHER PUBLICATIONS

Amazon “Simplehuman Bullet Open Trash Can”, https://www.amazon.com/simplehuman-Bullet-Trash-Commercial-Stainless/dp/B000BHUHP0/ref=cm_cr_arp_d_product_top?ie=UTF8. Apr. 17, 2008. shown in p. 1, Model No. CW1407.

Morphy Richards Sensor Bin—<https://www.youtube.com/watch?v=leiDOjLffoQ>.

Simplehuman Brushed Stainless Steel Rectangular Automatic Sensor Kitchen Bin—<https://www.youtube.com/watch?v+jRNBka5MY1g>.

Motion Sensor bin—<https://www.youtube.com/watch?v=vDvZwIddYCs>.

Unboxing Dihl 50L Black Rectangle Sensor Bin—<https://www.youtube.com/watch?v=v1fL-f2hMY8>.

Simplehuman Voice & Motion Control Sensor Bin—https://www.youtube.com/watch?v=M_Q7sNSw5LE.

Automatic Rectangular Sensor Bin (Large)—<https://www.youtube.com/watch?v=157FFjk780c>.

* cited by examiner

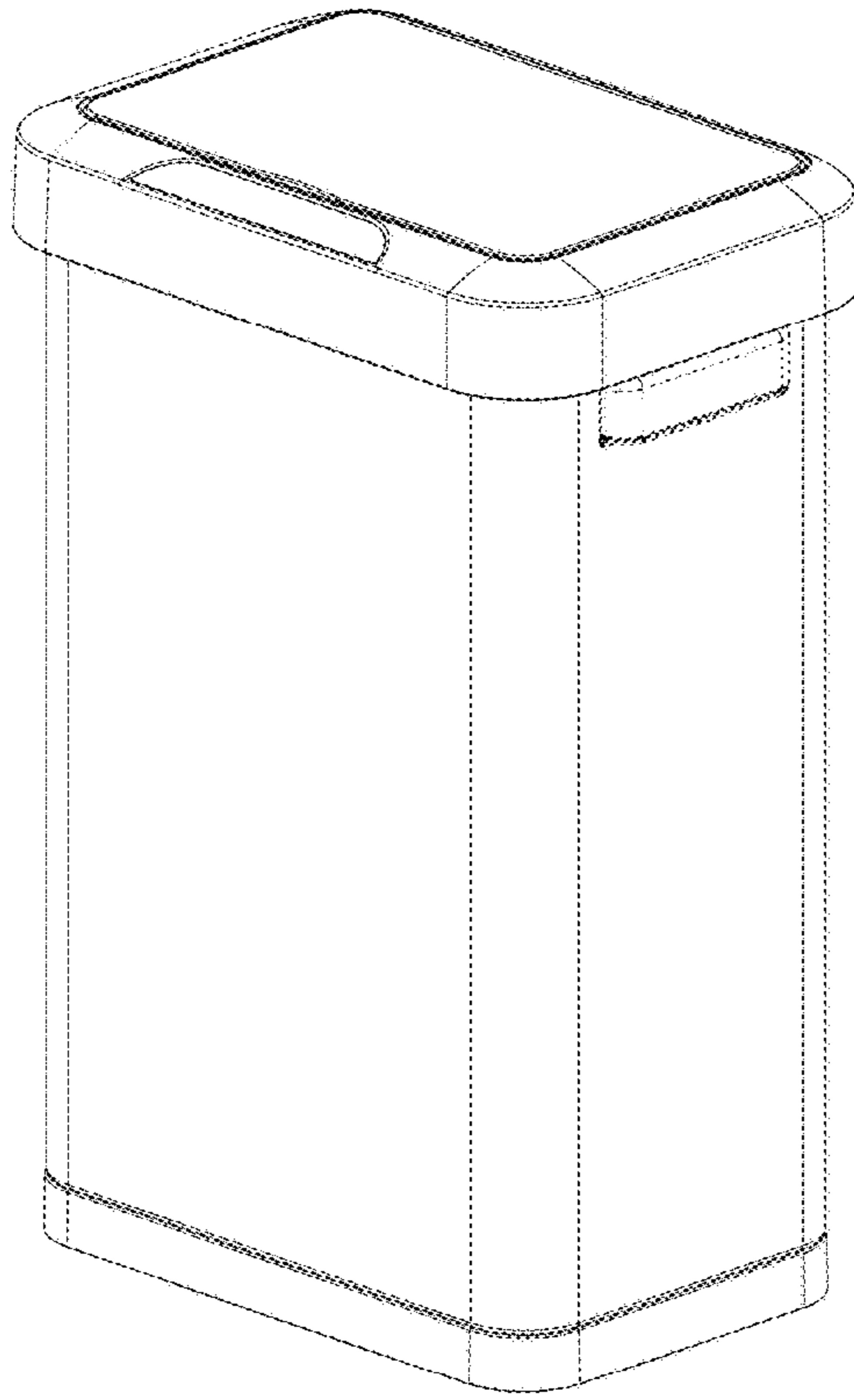


FIG. 1

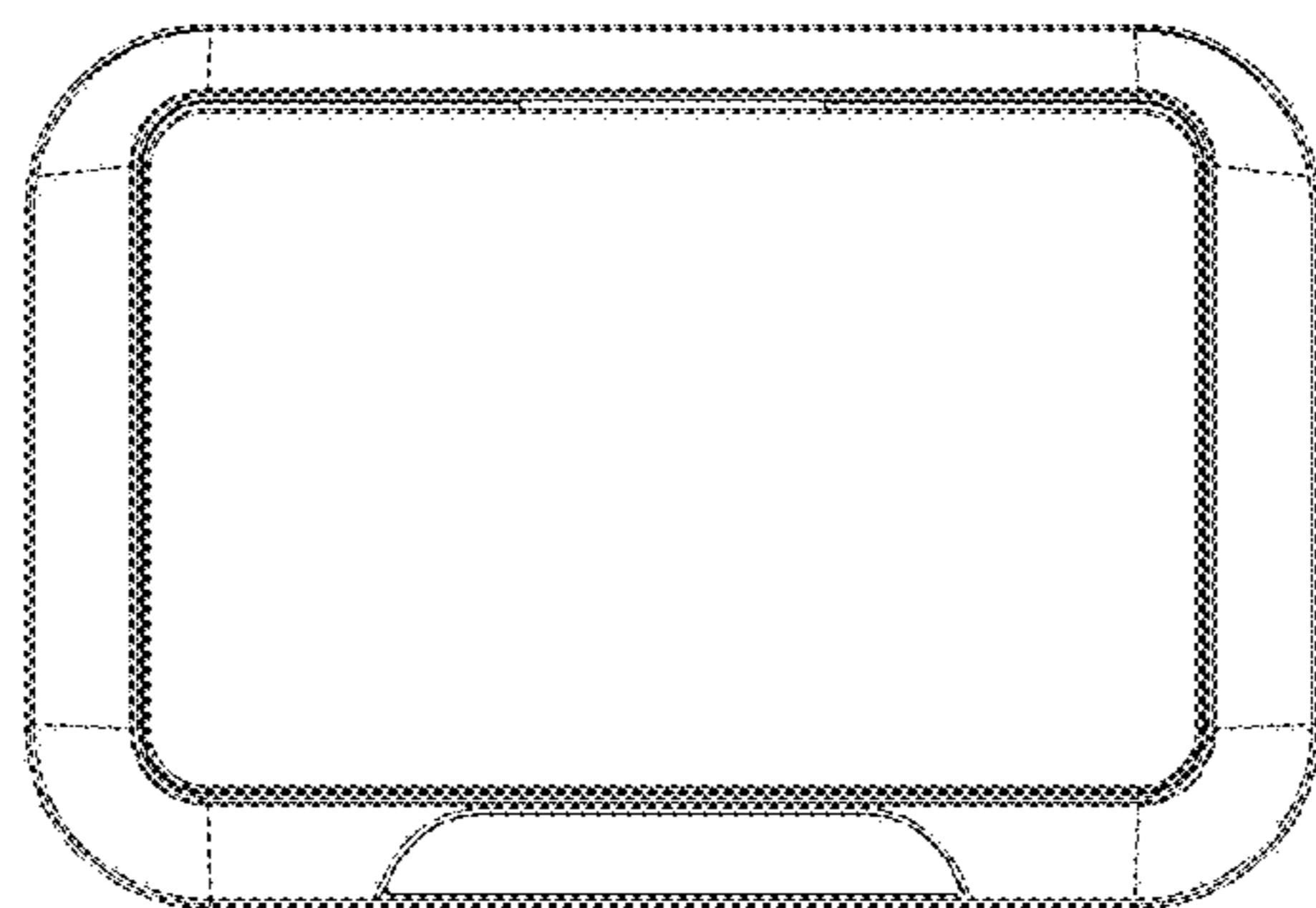


FIG. 2

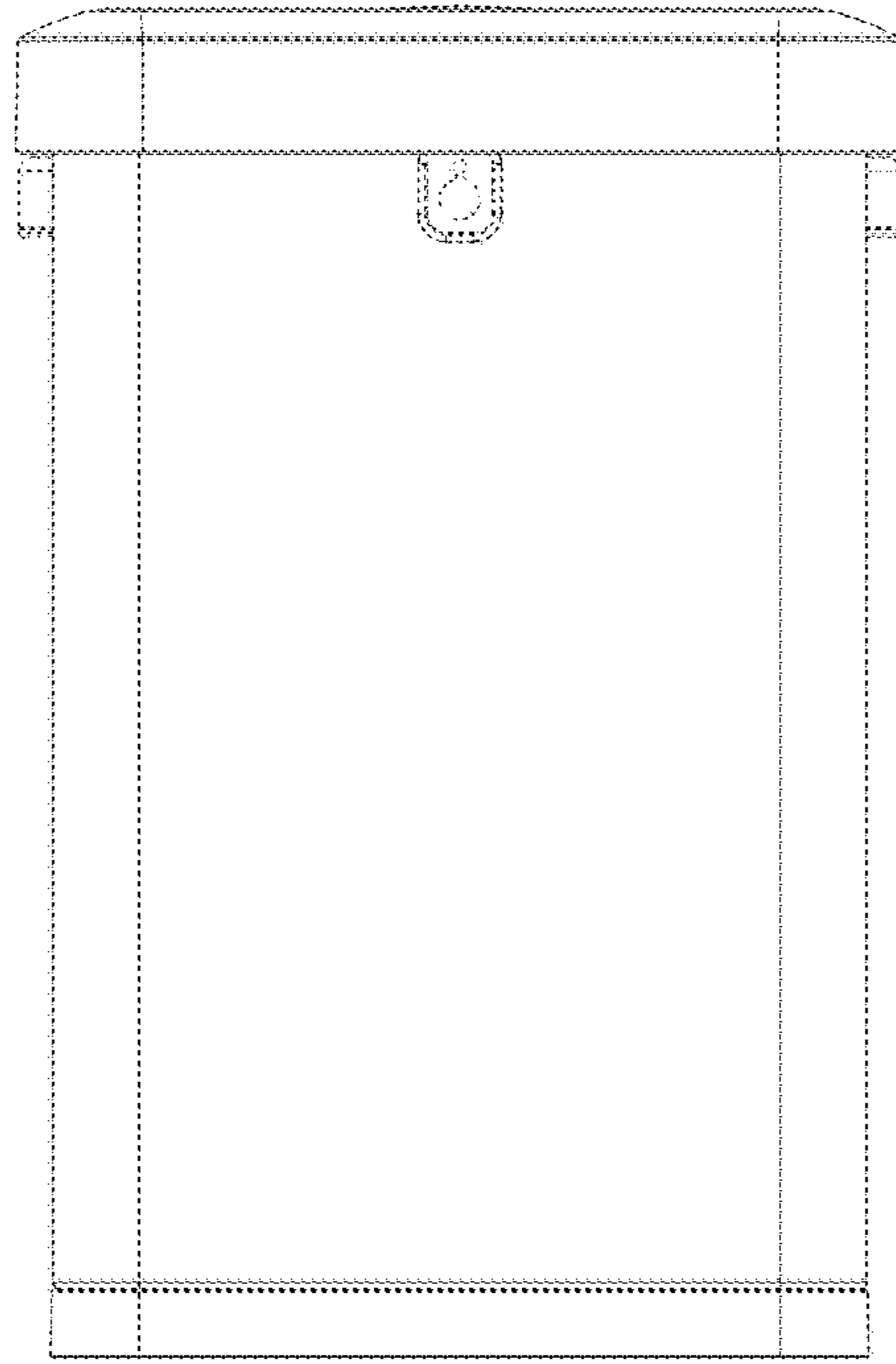


FIG.3

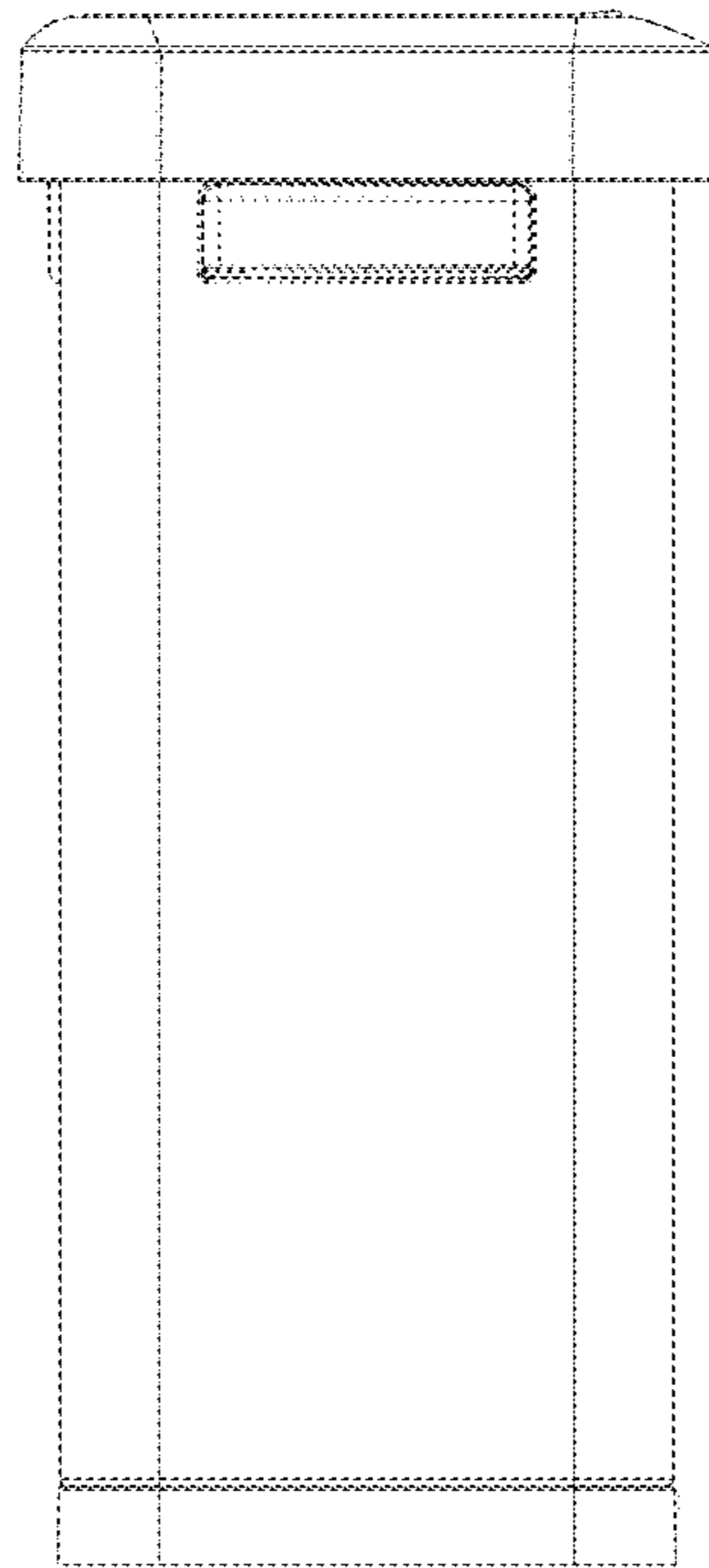


FIG.4

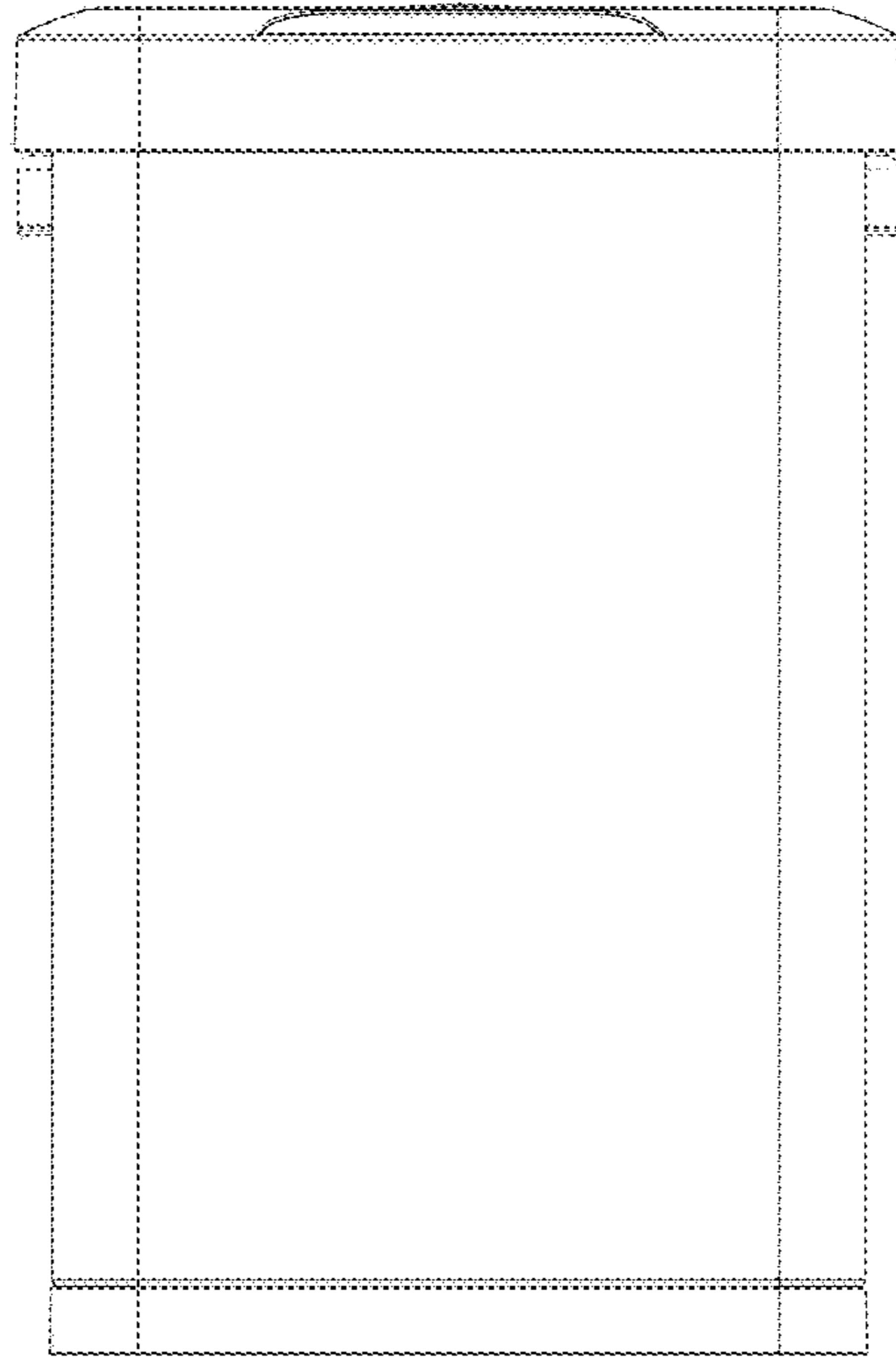


FIG. 5



FIG. 6

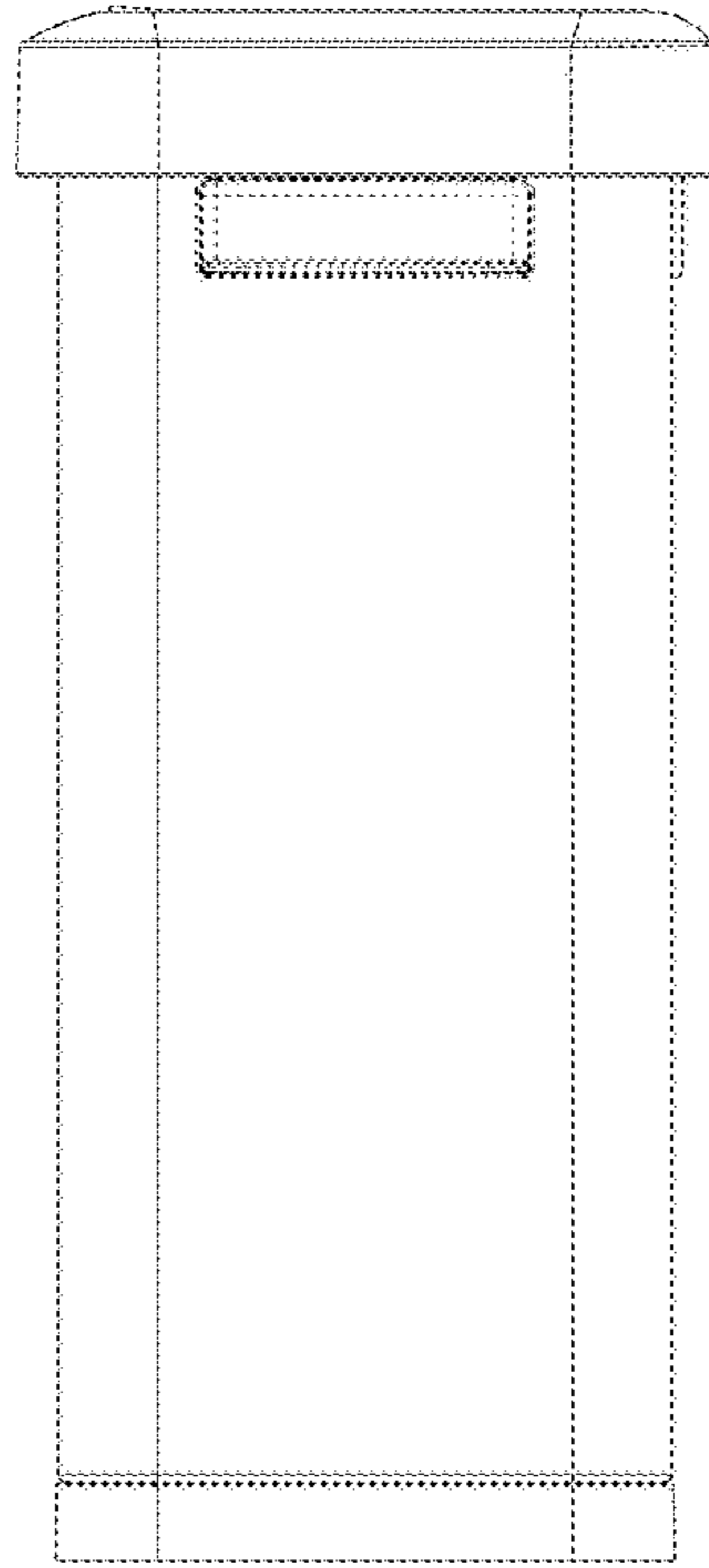


FIG. 7