



US00D992755S

(12) **United States Design Patent** (10) **Patent No.:** **US D992,755 S**
Bonnoitt, Jr. et al. (45) **Date of Patent:** **** Jul. 18, 2023**

(54) **THERMOFORMED CONTAINER WITH A RACK INSERT**

(71) Applicant: **Integra Biosciences AG**, Zizers (CH)

(72) Inventors: **George K. Bonnoitt, Jr.**, Amherst, NH (US); **Christopher LaCroix**, Bedford, NH (US)

(73) Assignee: **Integra Biosciences AG**, Zizers (CH)

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

(21) Appl. No.: **29/796,909**

(22) Filed: **Jun. 28, 2021**

Related U.S. Application Data

(63) Continuation of application No. 29/714,769, filed on Nov. 26, 2019, now Pat. No. Des. 954,984.

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

(52) **U.S. Cl.**
USPC **D24/224**

(58) **Field of Classification Search**
USPC D24/108, 127–130, 216, 222–232;
D9/432, 756–758; D6/406.1–406.3,
D6/406.6; D3/294, 295, 203.1, 304
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D341,237 S * 11/1993 DeBusk D34/5
5,392,914 A 2/1995 Lemieux et al.
(Continued)

FOREIGN PATENT DOCUMENTS

WO D209053-001 * 11/2020

OTHER PUBLICATIONS

ECO Rack & PopTop Base: Up to 60% less plastic waste in the laboratory. Online, published date Feb. 7, 2020. Retrieved on Dec.

19, 2022 from URL: <https://www.youtube.com/watch?v=P01QXvM8B8Q&t=2s>.*

(Continued)

Primary Examiner — Omeed Agilee

(74) *Attorney, Agent, or Firm* — Andrus Intellectual Property Law, LLP

(57) **CLAIM**

The ornamental design for a thermoformed container with a rack insert, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a thermoformed container with a rack insert showing the new design with an opaque rack insert;

FIG. 2 is a front side elevation view of the thermoformed container with a rack insert;

FIG. 3 is a rear side elevation view of the thermoformed container with a rack insert;

FIG. 4 is a left side elevation view of the thermoformed container with a rack insert;

FIG. 5 is a right side elevation view of the thermoformed container with a rack insert;

FIG. 6 is a top plan view of the thermoformed container with a rack insert;

FIG. 7 is a bottom plan view of the thermoformed container with a rack insert;

FIG. 8 is a front perspective view of the thermoformed container with a rack insert showing a front latch in an unlatched position;

FIG. 9 is a front perspective view of the thermoformed container with a rack insert tip deck showing the lid open to expose the opaque rack insert.

FIG. 10 is a perspective view of the thermoformed container with a rack insert of FIGS. 1-9 with the lid open to expose the opaque rack insert which is lined for the color yellow.

FIG. 11 is a perspective view of the thermoformed container with a rack insert of FIGS. 1-9 with the lid open to expose the opaque rack insert which is lined for the color purple.

(Continued)

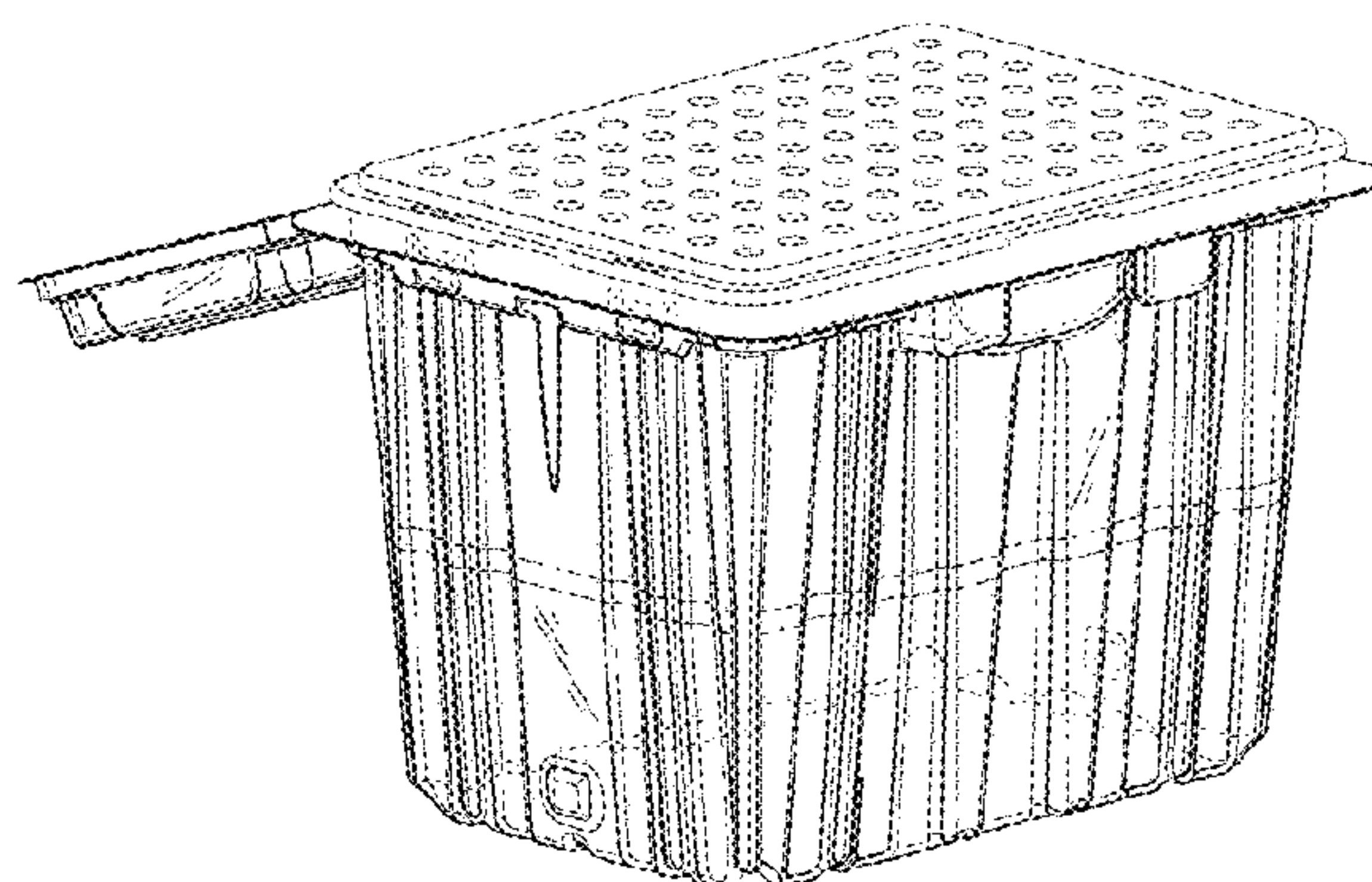
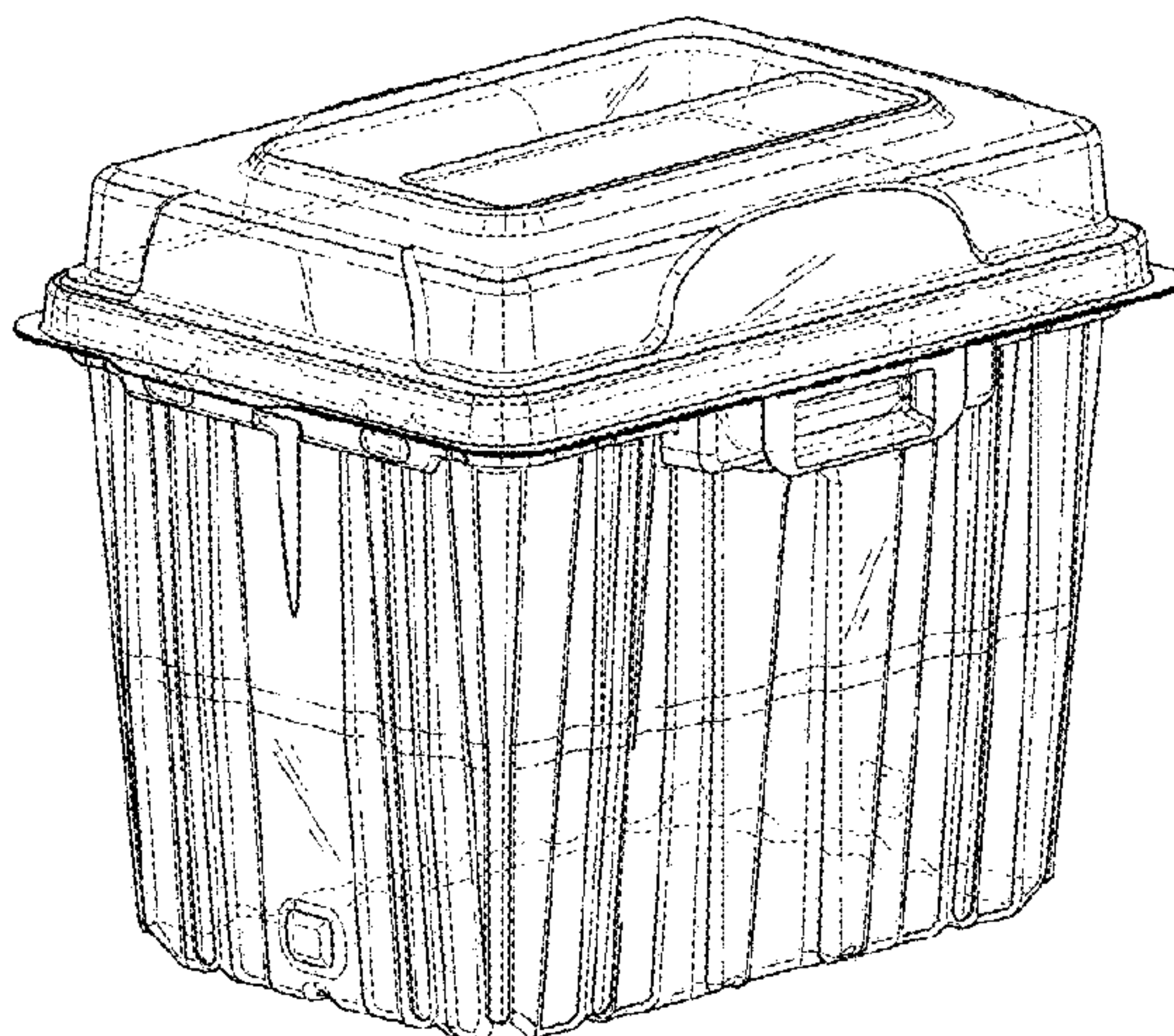


FIG. 12 is a perspective view of the thermoformed container with a rack insert of FIGS. 1-9 with the lid open to expose the opaque rack insert which is lined for the color green; and, FIG. 13 is a perspective view of the thermoformed container with a rack insert of FIGS. 1-9 with the lid open to expose the opaque rack insert which is lined for the color blue. The rack insert lined for the colors yellow, purple, green and blue in FIGS. 10-13 represent embodiments with tonal contrast with respect to the thermoformed container with a rack insert. FIG. 10 is an embodiment in which the lining of the rack insert is for opaque yellow, namely Pantone 7403C. FIG. 11 is an embodiment in which the lining of the rack insert is for opaque purple, namely Pantone 2567C. FIG. 12 is an embodiment in which the lining of the rack insert is for opaque green, namely Pantone 622C. FIG. 13 is an embodiment in which the lining of the rack insert is for opaque blue, namely Pantone 550C.

1 Claim, 13 Drawing Sheets

(58) Field of Classification Search

CPC ... B01L 9/543; B65D 21/0219; B65D 25/205;
B65D 45/20

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

5,577,627	A *	11/1996	Richie-Dubler	B65D 43/162 220/4.23
5,642,816	A	7/1997	Kelly et al.	
6,019,225	A	2/2000	Kalmakis et al.	
6,098,819	A	8/2000	Link	
6,286,678	B1	9/2001	Petrek	
D451,278	S	12/2001	Cooper	
D467,425	S *	12/2002	Hardigg	D3/276
6,609,633	B1 *	8/2003	Dyble	B65D 43/164 220/4.23
D587,110	S	2/2009	Kronshage	
D604,604	S	11/2009	Strange	
D718,533	S *	12/2014	Leadholm	D3/307
D724,236	S	3/2015	Motadel	
9,352,324	B2	5/2016	Rethwisch et al.	

9,617,036	B2	4/2017	Baker	
D806,483	S *	1/2018	Stanford	D7/605
D873,436	S	1/2020	O'Connell	
D886,321	S	6/2020	Motadel	
D888,280	S	6/2020	Motadel	
D893,025	S *	8/2020	Joyce	D24/131
D893,292	S	8/2020	Lam	
D907,445	S *	1/2021	Nichols	D7/605
D919,116	S *	5/2021	Motadel	D24/227
D928,343	S *	8/2021	Bonnoitt, Jr.	D24/227
D954,984	S *	6/2022	Bonnoitt, Jr.	D24/224
2007/0164033	A1 *	7/2007	Maia	B65D 1/22 220/526
2012/0132657	A1 *	5/2012	Seiders	E05B 1/0053 220/592.2
2014/0234182	A1	8/2014	Motadel	
2015/0367349	A1	12/2015	Leinonen et al.	
2016/0000269	A1 *	1/2016	Van Puijenbroek ...	B65D 59/04 53/421
2017/0029173	A1 *	2/2017	Baker	B65D 25/108
2017/0217637	A1	8/2017	Auerbach	
2017/0271412	A1	9/2017	Bernhardt	
2017/0275059	A1 *	9/2017	Lotfi	B65D 1/42
2017/0305632	A1 *	10/2017	Brown	F25D 3/08
2018/0237185	A1 *	8/2018	Han	B65D 21/0223
2018/0353955	A1	12/2018	Kelly	
2019/0275528	A1	9/2019	Rethwisch et al.	
2019/0299217	A1	10/2019	Motadel	
2021/0205817	A1 *	7/2021	Bonnoitt, Jr.	B01L 9/543

OTHER PUBLICATIONS

CX Black & Yellow 27—Gallon Tough Storage Containers with Secure Snap Lid, Stackable, Extremely Durable, Nestable. Online, published date Jun. 2, 2020. Retrieved on Dec. 19, 2022 from URL: <https://www.amazon.com/Yellow-27-Gallon-Storage-Containers-Stackable/dp/B089KR521Q>.*

Thermo Scientific™ Finntip™ Filtered Pipette Tips. Online, published date unknown. Retrieved on Dec. 19, 2022 from URL: <https://www.fishersci.ca/shop/products/finntip-filtered-pipette-tips/21377604>.*

Terrarack Data Sheet, Rainin Instrument, LLC, Mar. 2015.

Liquid Handling Brochure, Consumables Peak Perfection, Eppendorf AG, 2018.

Mettler Toledo website for BioClean Pipette Racks: <https://www.mt.com/us/en/home/products/pipettes/bioclean-pipette-tip/packaging>, viewed Jun. 28, 2021.

* cited by examiner

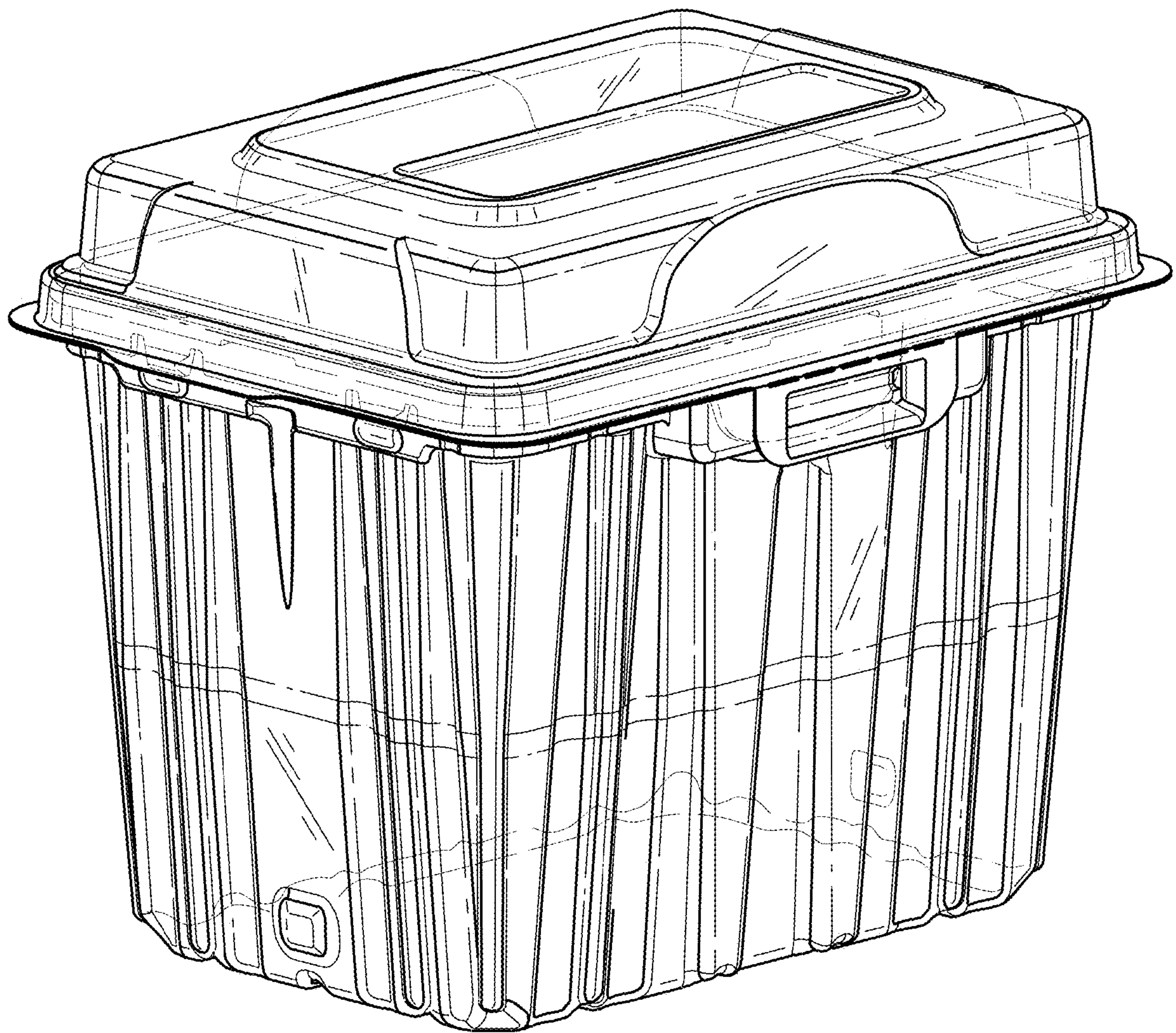


FIG. 1

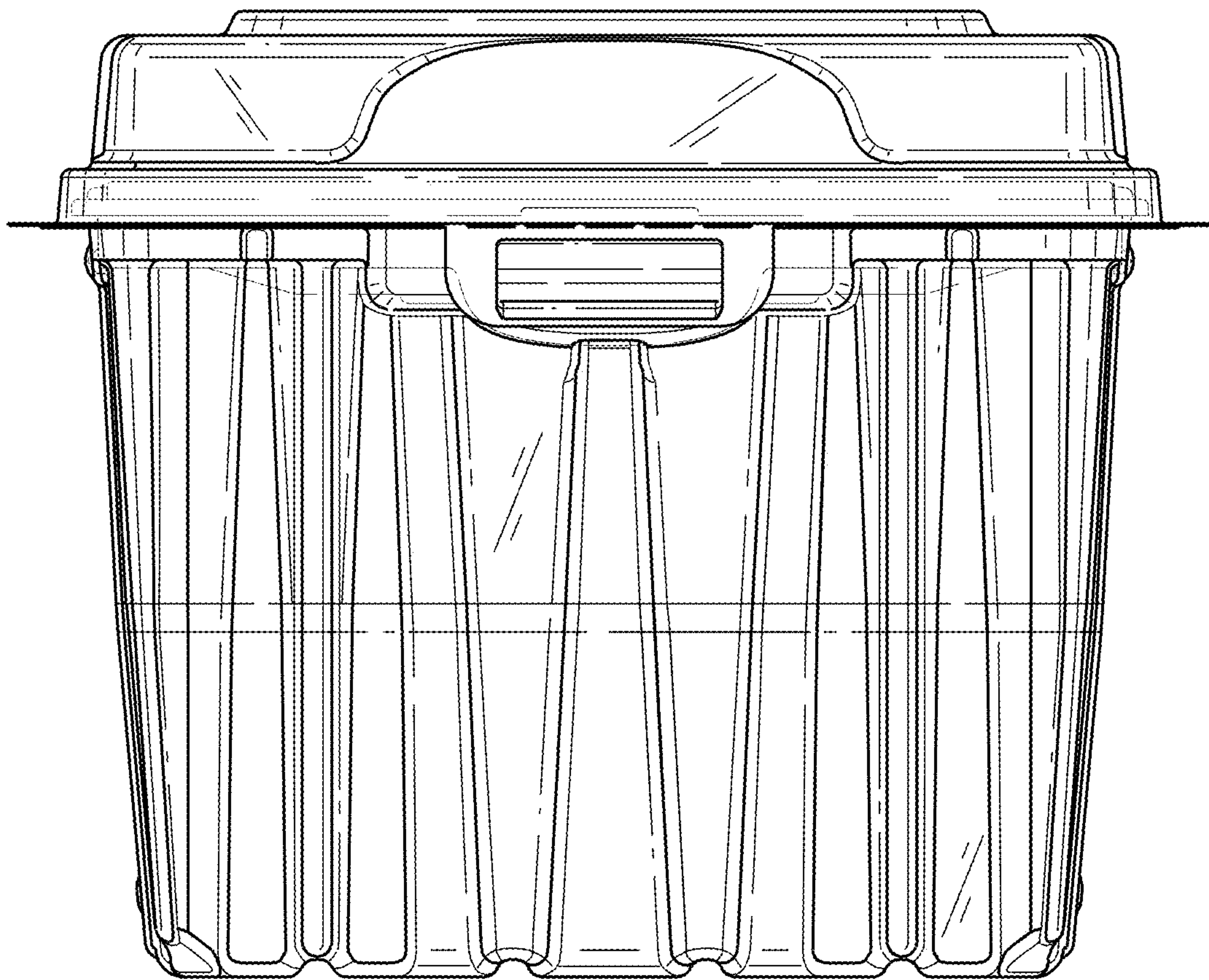


FIG. 2

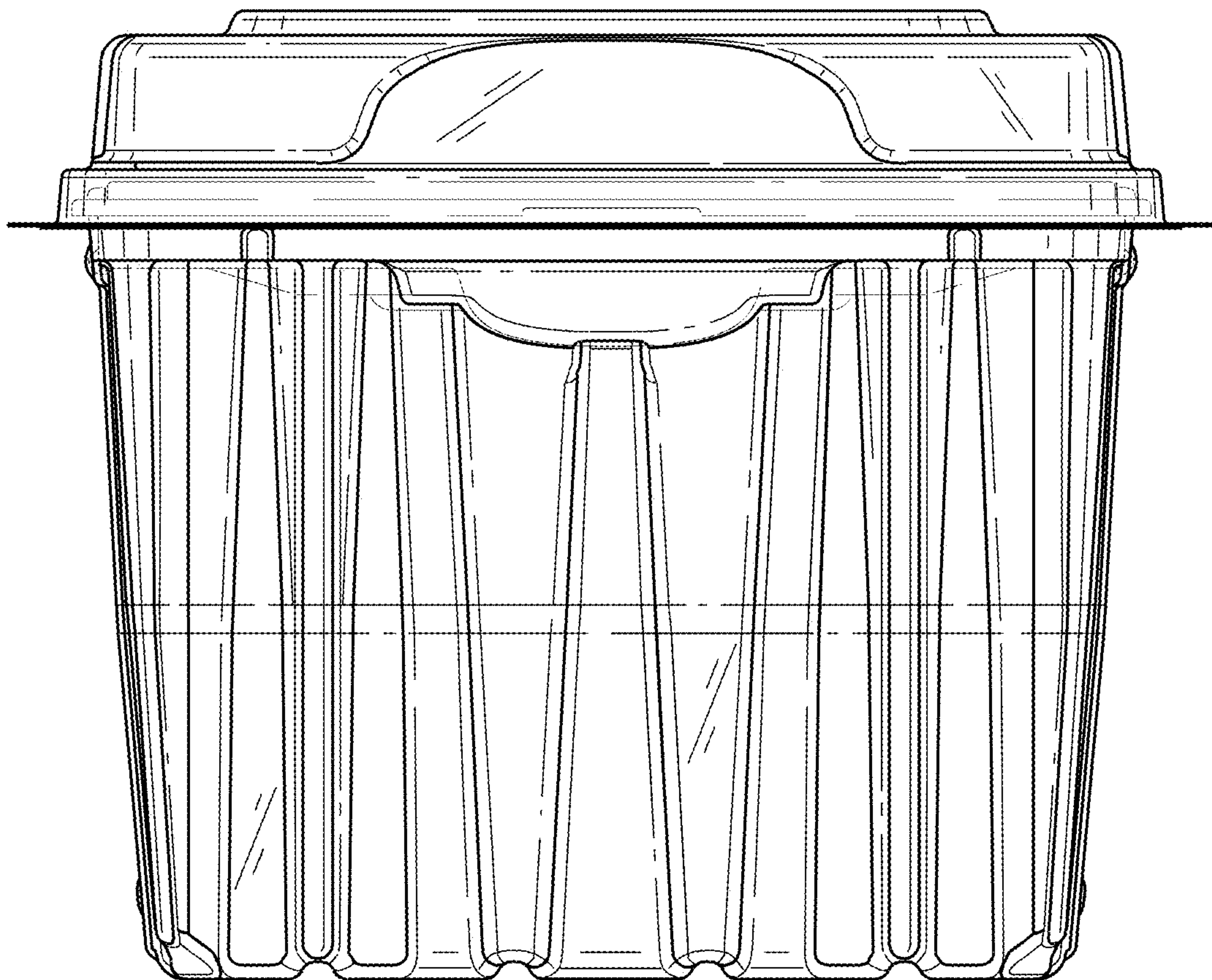


FIG. 3

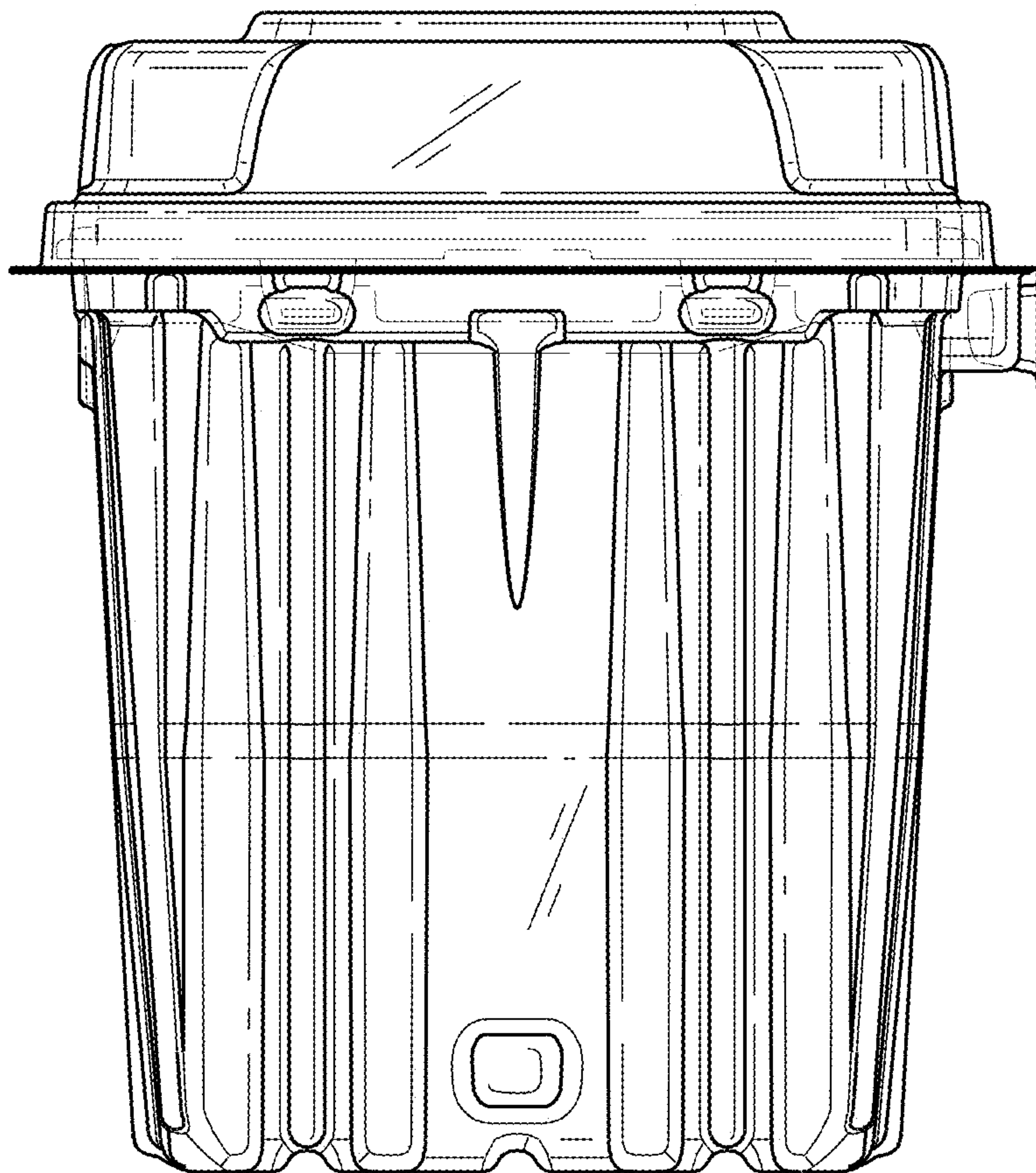


FIG. 4

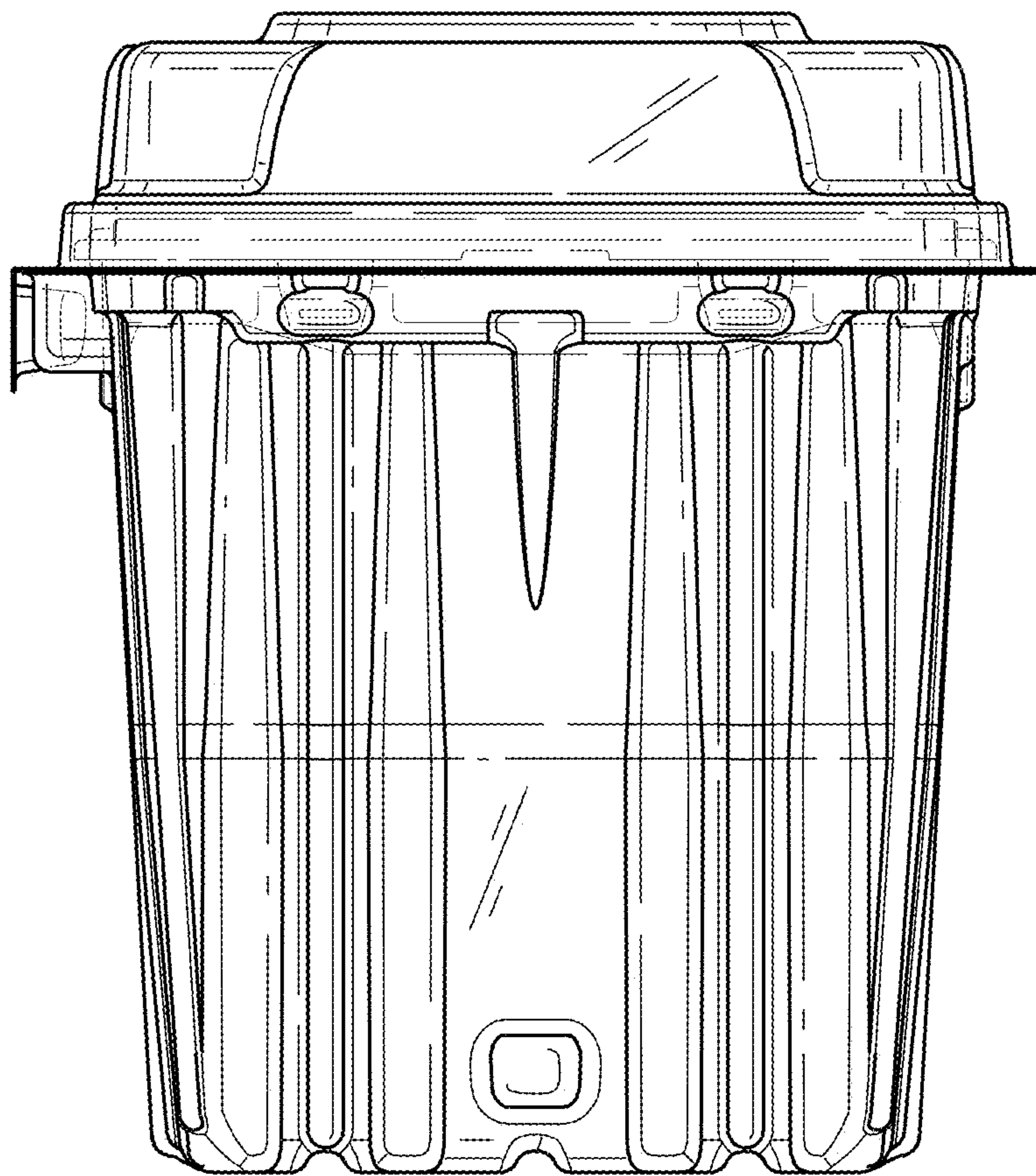


FIG. 5

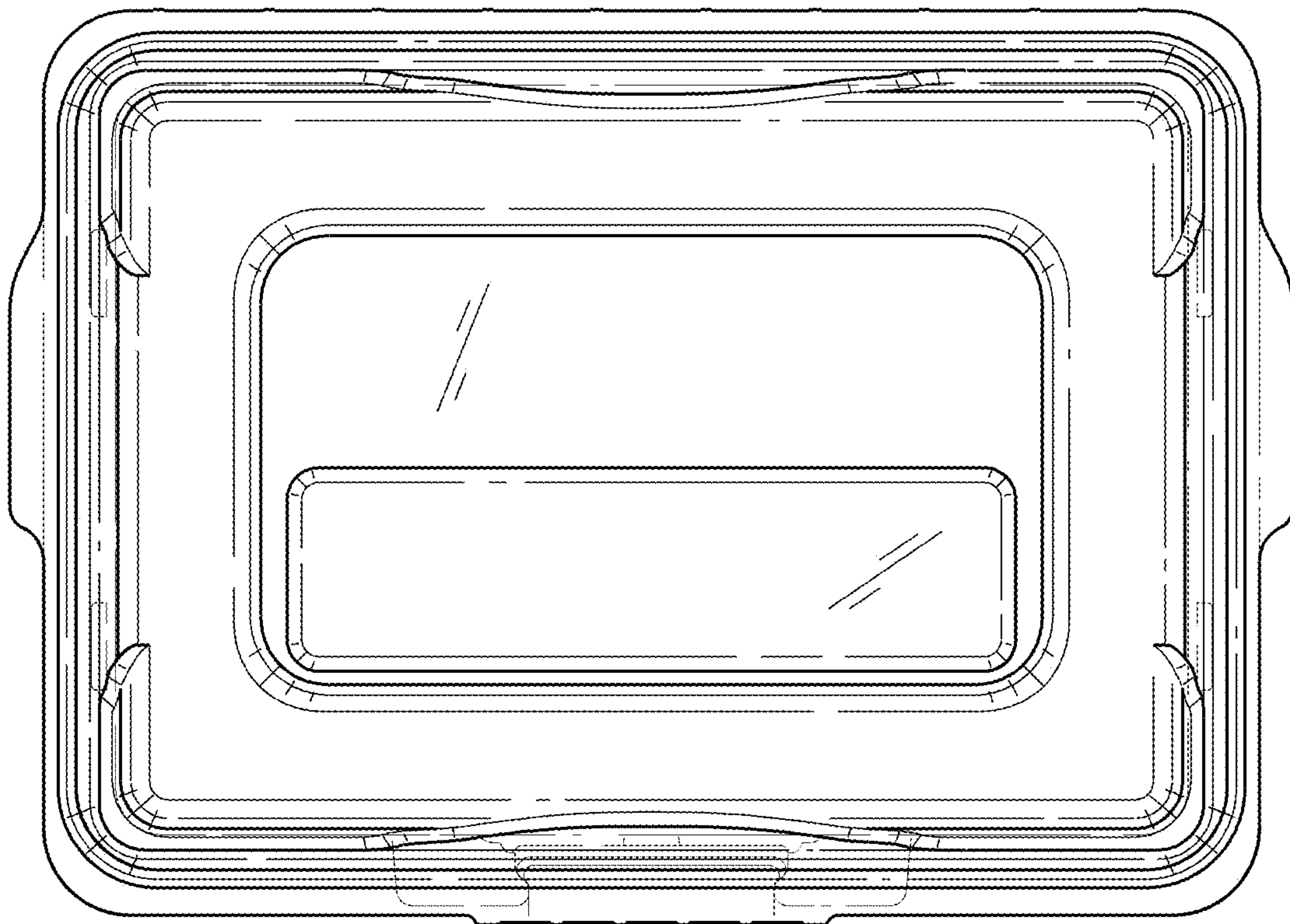


FIG. 6

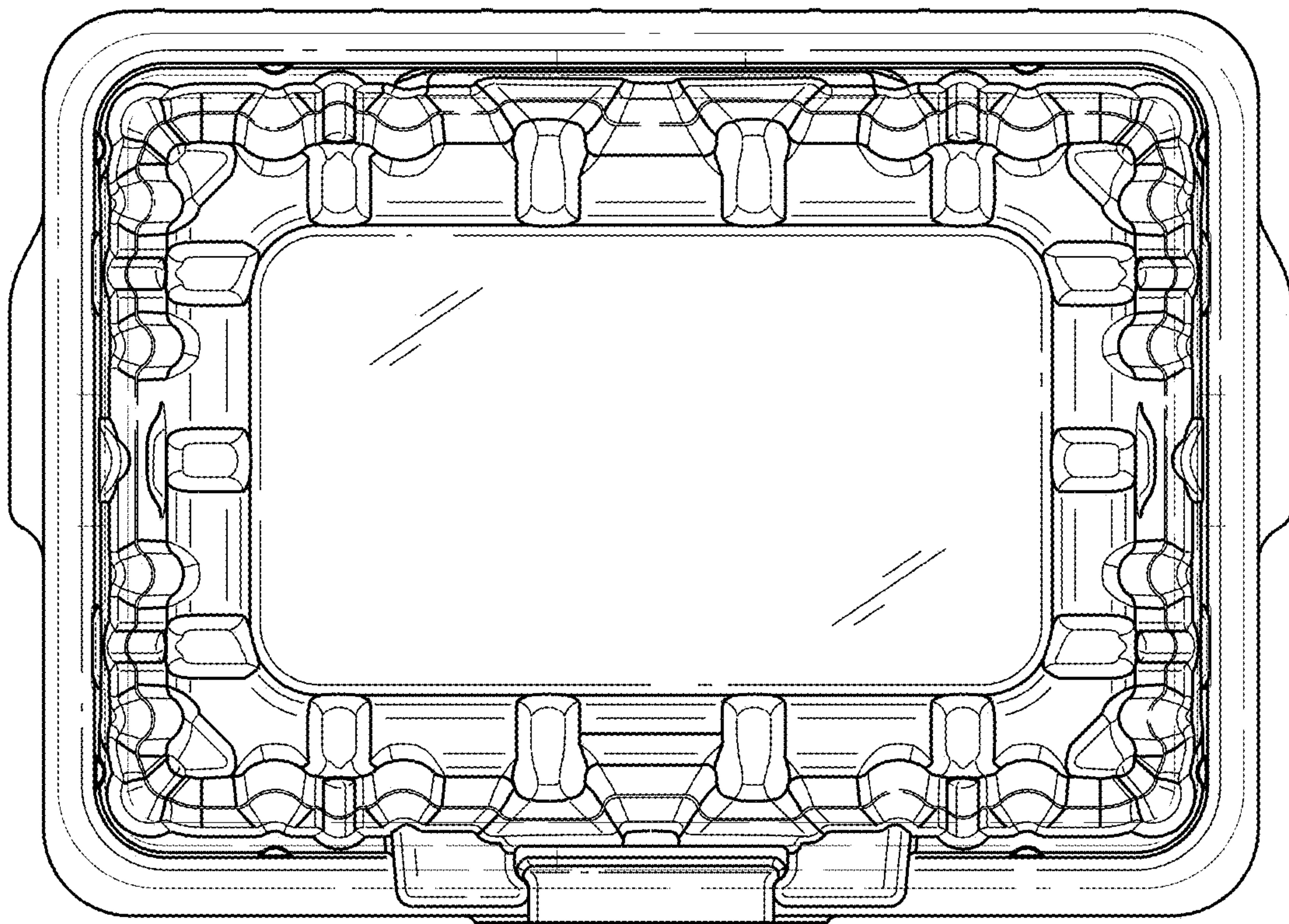


FIG. 7

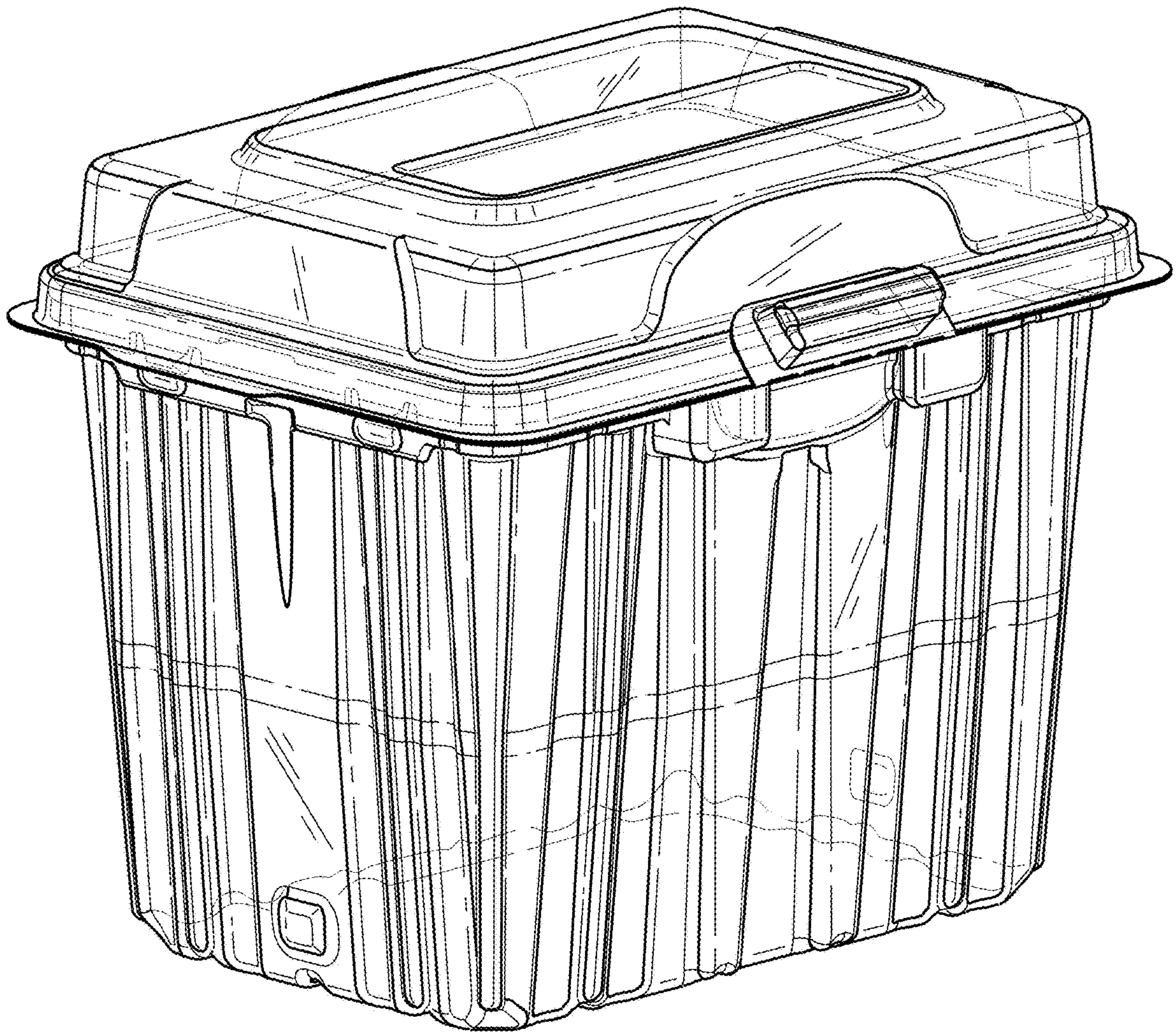


FIG. 8

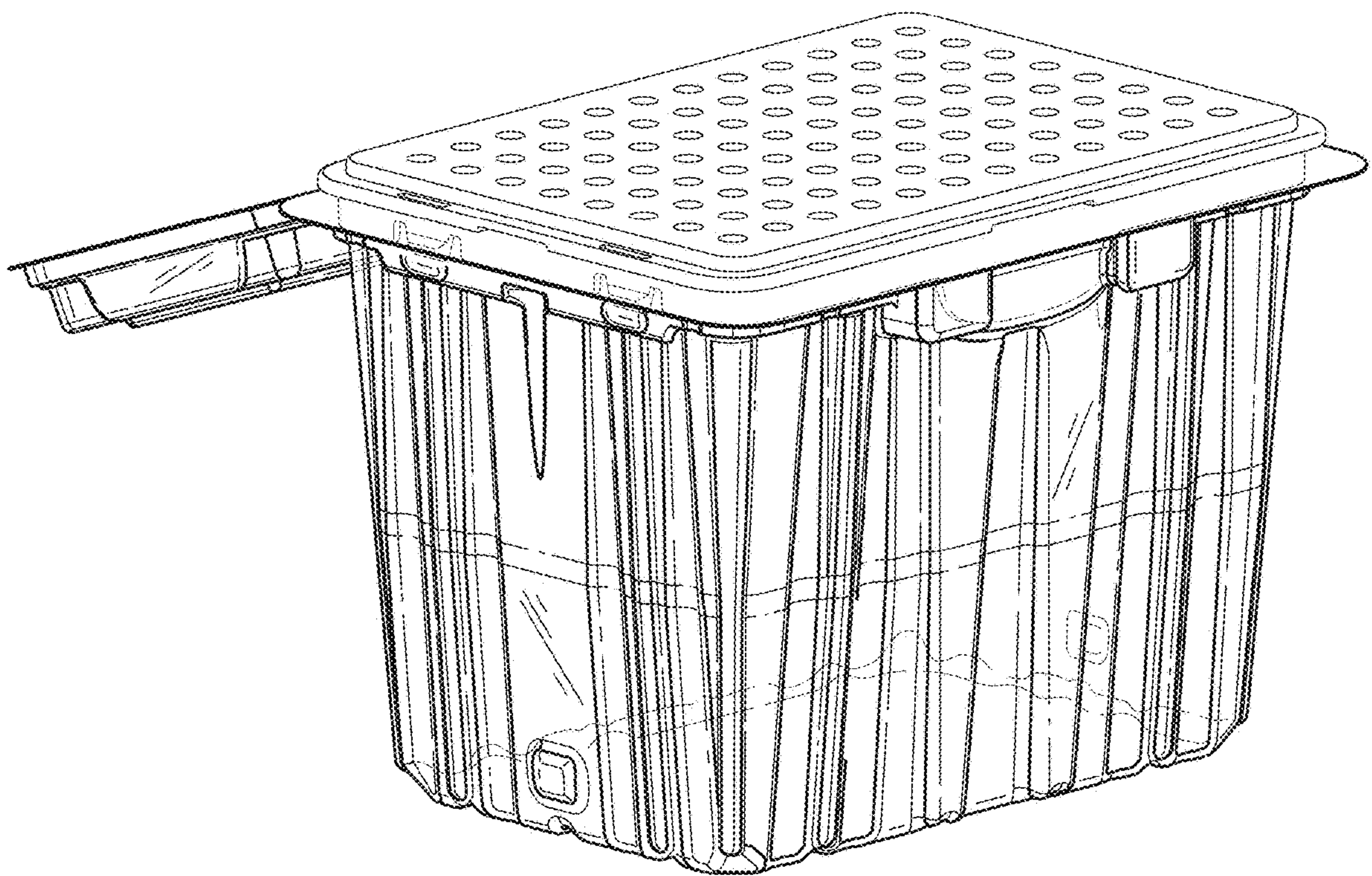


FIG. 9

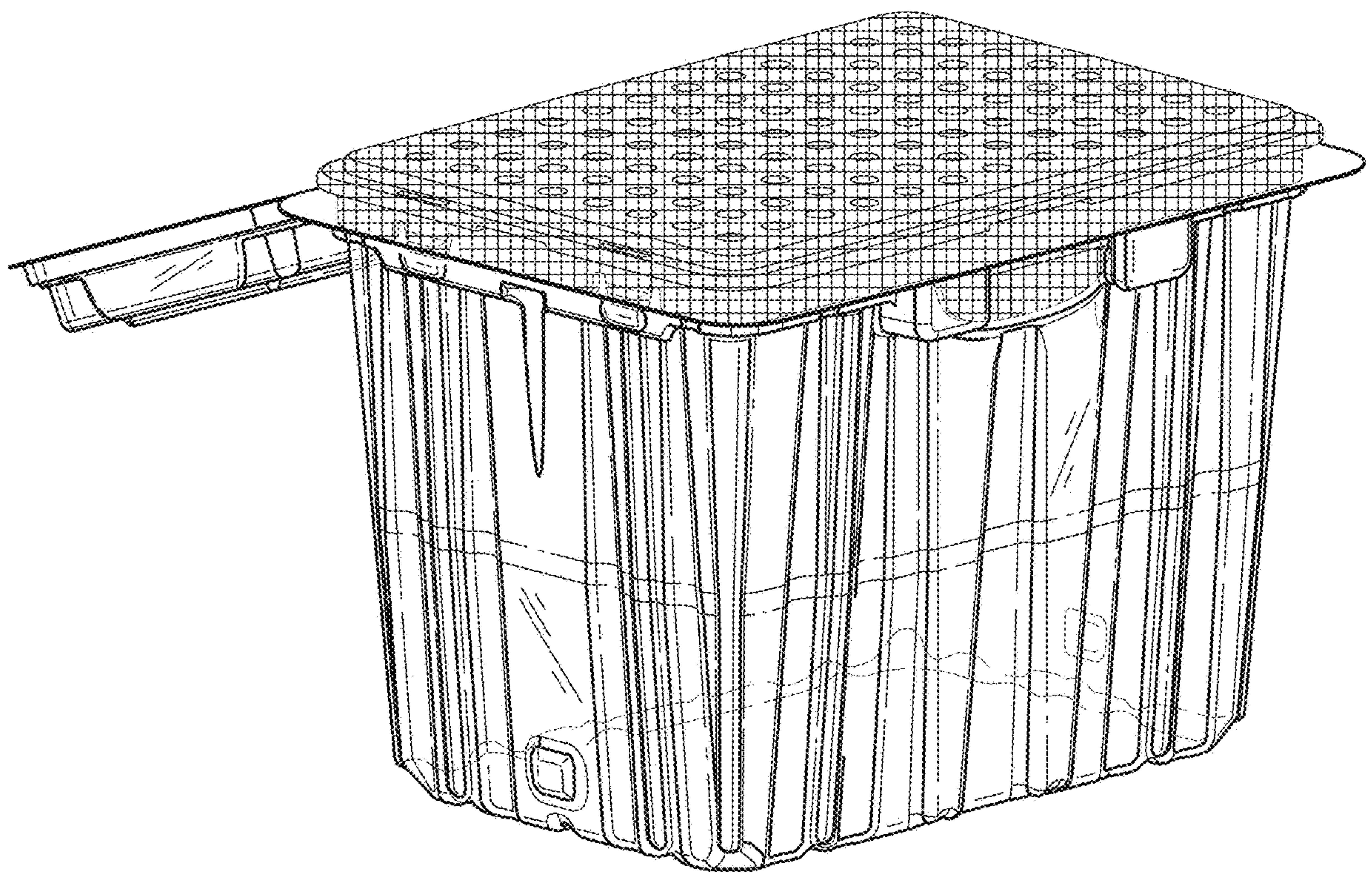


FIG. 10

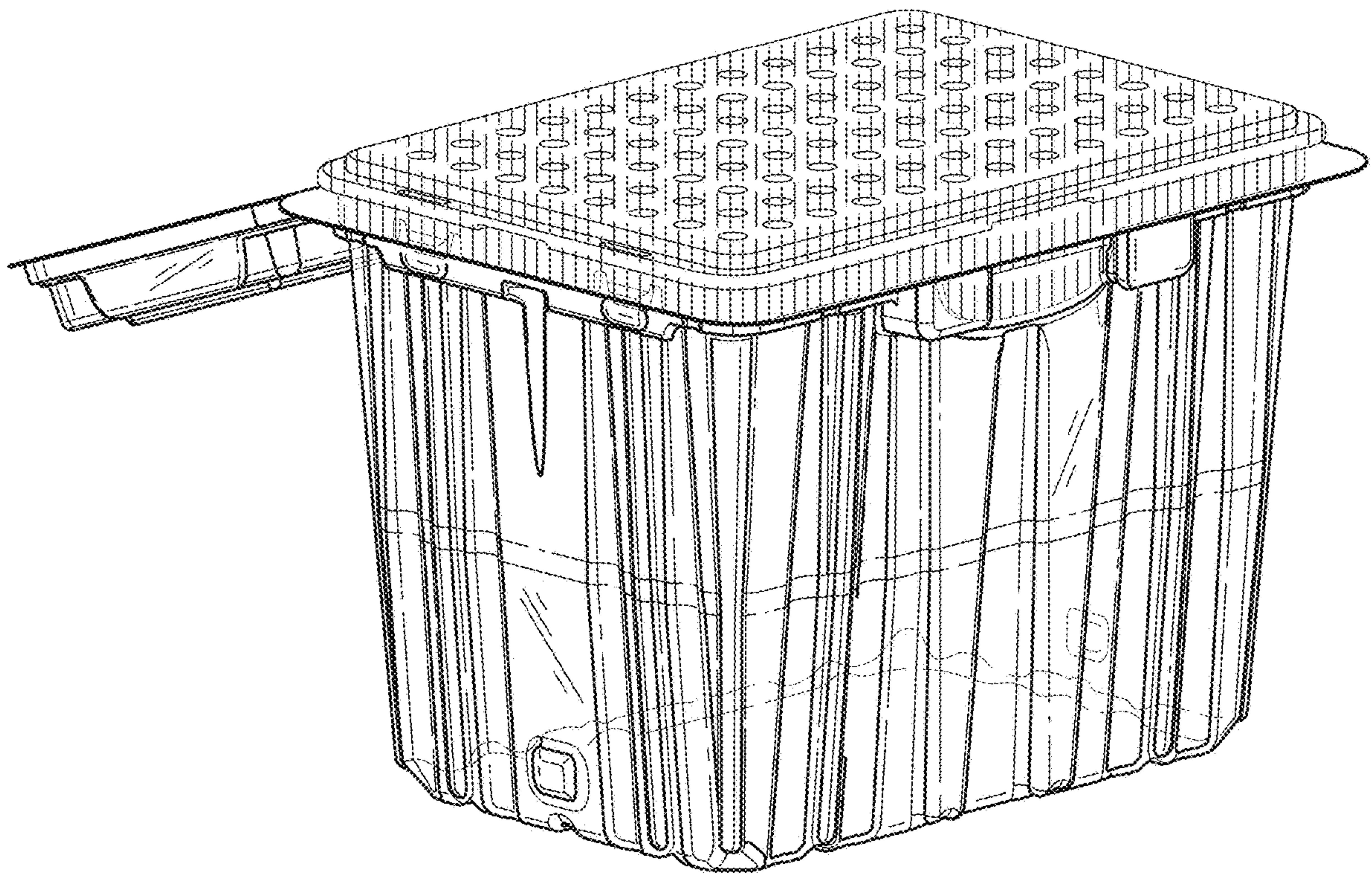


FIG. 11

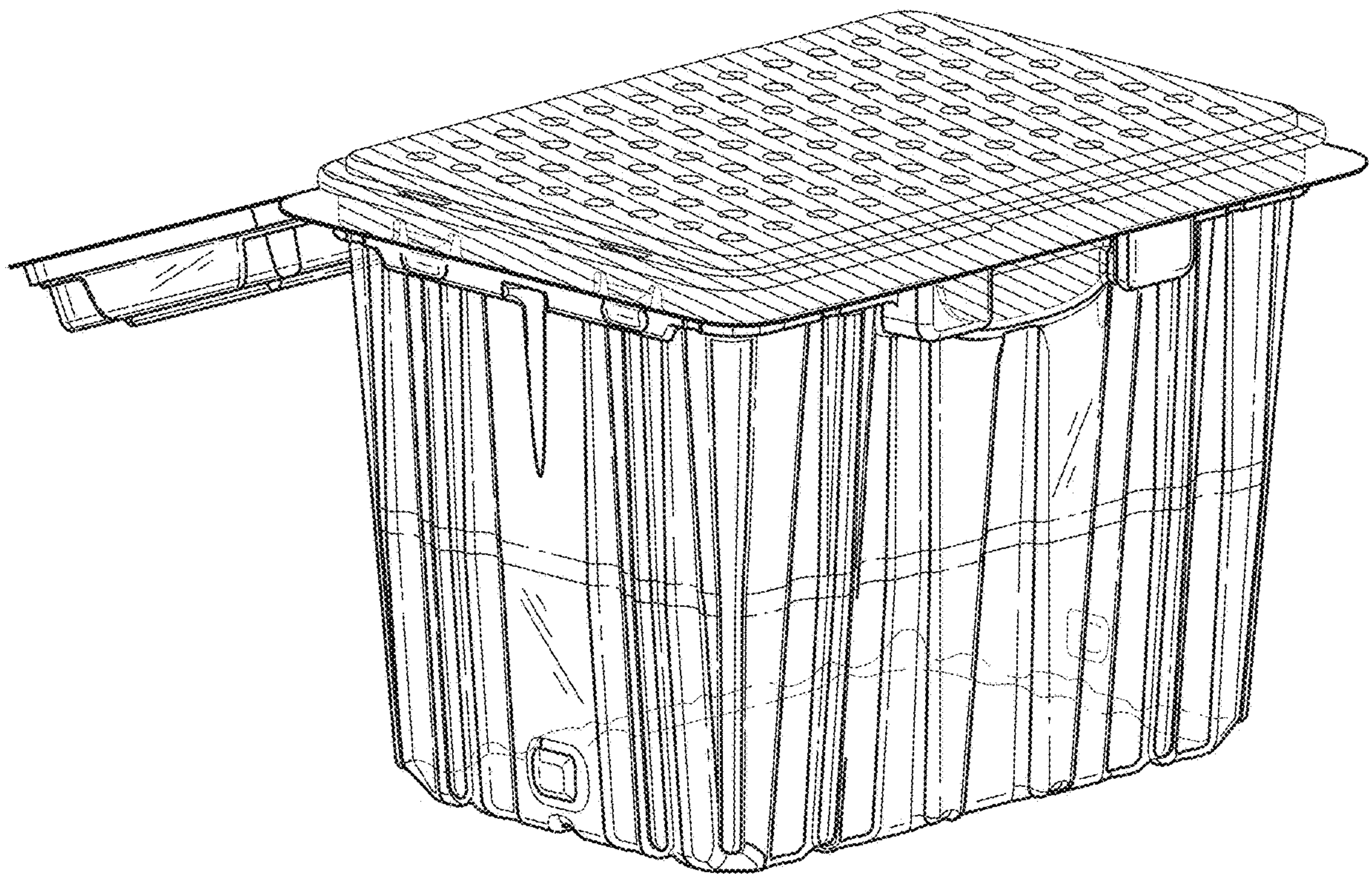


FIG. 12

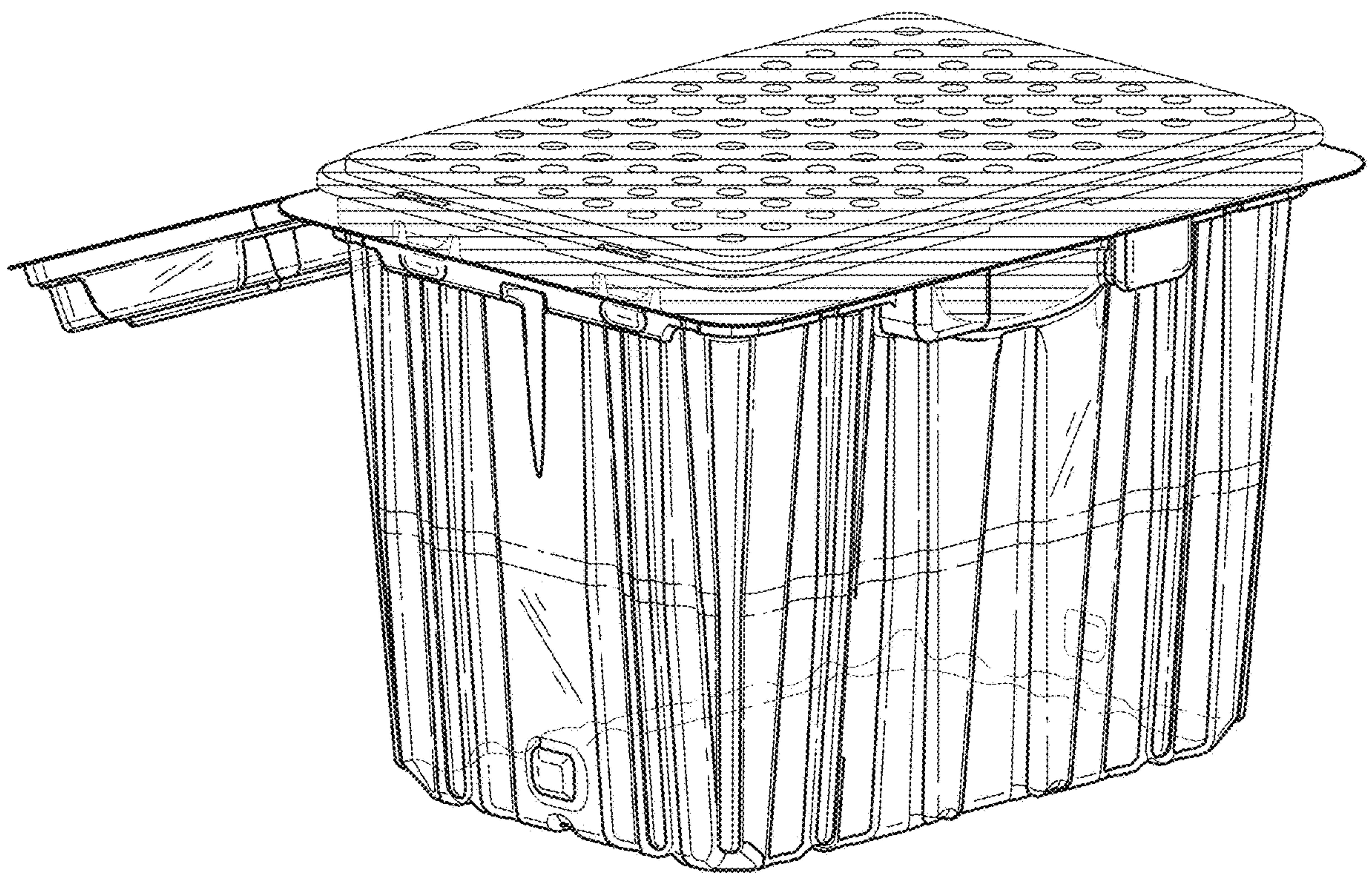


FIG. 13