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United States Design Patent

Chen et al.

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(54) DUST BAG CONNECTOR PLATE

- (71) Applicant: **Jiaxing Xiaotian Environmental Protection Technology Co., Ltd.**, Zhejiang (CN)
- (72) Inventors: **Dong Chen**, Zhejiang (CN); **Yundie Dai**, Zhejiang (CN)
- (73) Assignee: **Jiaxing Xiaotian Environmental Protection Technology Co., Ltd.**, Zhejiang (CN)

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(58) Field of Classification Search
USPC D32/25, 30, 31
CPC ... A47L 9/10; A47L 9/12; A47L 9/122; A47L 9/106; A47L 9/102; A47L 9/1683; A47L 9/1691; B01D 46/02
See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

D559,483 S *	1/2008	Matter	D32/31
7,979,956 B2 *	7/2011	Matter	A47L 9/1436
			55/377
D868,405 S *	11/2019	Andrup	D32/30
10,952,581 B2 *	3/2021	Warius	A47L 9/1436
10,986,969 B2 *	4/2021	Warius	A47L 9/1427

(Continued)

FOREIGN PATENT DOCUMENTS

CN	307443041	*	7/2022
CN	308304370	*	11/2023

(Continued)

OTHER PUBLICATIONS

Roborock Qrevo Edge Hepa Filters by Bluearks (online), dated Oct. 29, 2024. Retrieved from Internet May 3, 2025, URL: <https://www.amazon.sg/Bluearks-Replacement-Roborock-Cleaner-Accessories/dp/B0DL9QN4H8/ref> (2 pages).*

(Continued)

Primary Examiner — Kimberly Barnes

(74) Attorney, Agent, or Firm — Edward Darius Robinson

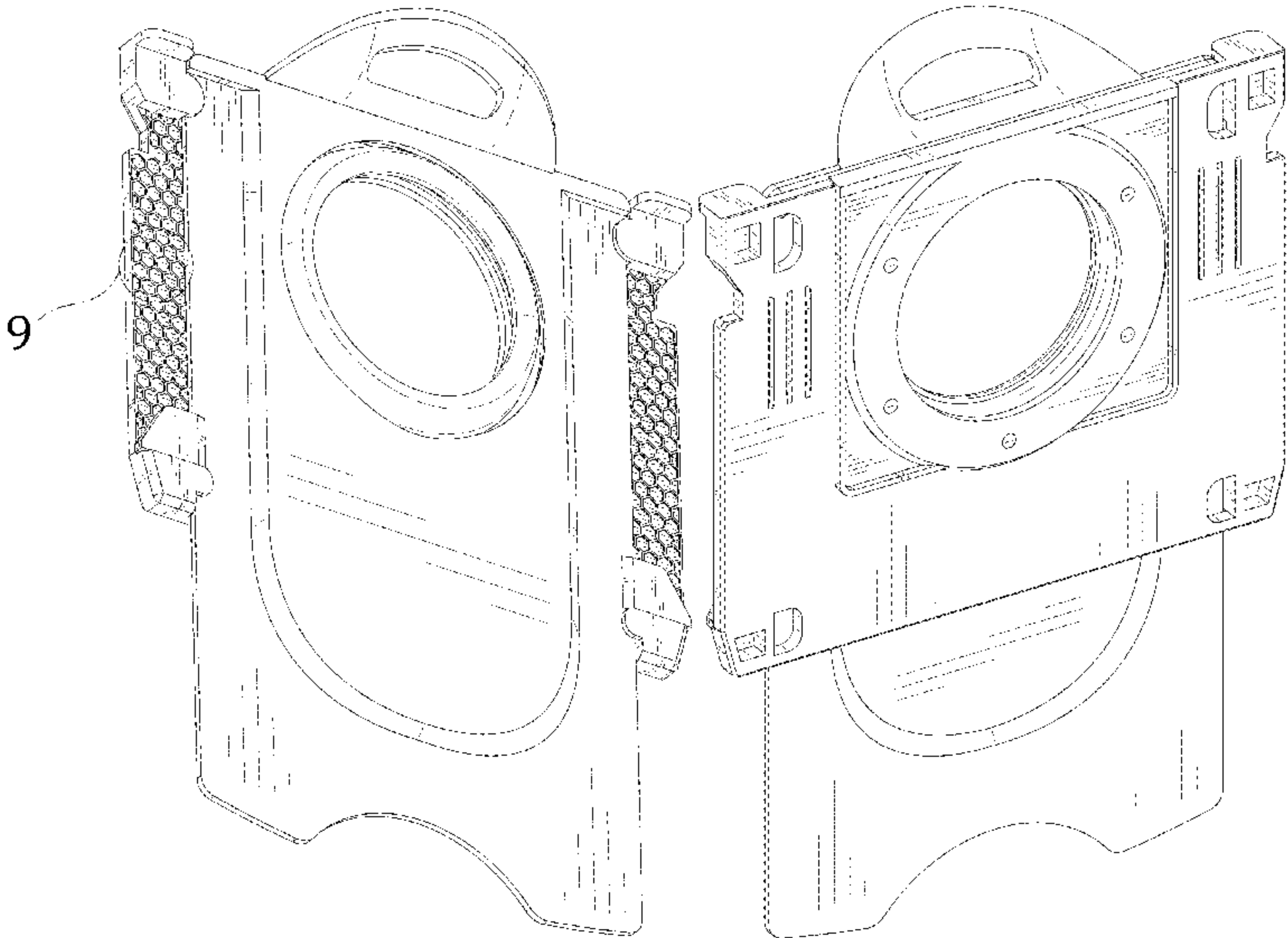
(57) CLAIM

The ornamental design for a dust bag connector plate as shown and described.

DESCRIPTION

FIG. 1 is a front, left and bottom perspective view of a dust bag connector plate, showing our new design.
FIG. 2 is a rear, right and top perspective view thereof.
FIG. 3 is a front elevation view thereof.
FIG. 4 is a rear elevation view thereof.
FIG. 5 is a left side elevation view thereof.
FIG. 6 is a right side elevation view thereof.
FIG. 7 is a top plan view thereof.
FIG. 8 is a bottom plan view thereof.
FIG. 9 is an enlarged view of detail 9 in FIG. 1.
FIG. 10 is another front, left and bottom perspective view of the dust bag connector plate in a first usable state; and, FIG. 11 is another front, left and bottom perspective view of the dust bag connector plate in a second usable state.
The dashed broken lines depict portions of the dust bag connector plate that form no part of the claimed design. The dot-dash broken lines in FIGS. 1 and 9 depict the boundaries of the enlarged views and form no part of the claimed design.
The dashed broken lines in FIGS. 10 and 11 depicting the bag portion represent environmental subject matter that forms no part of the claimed design.

1 Claim, 11 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

D965,244 S * 9/2022 Zheng D34/7
D980,563 S * 3/2023 Hu D32/31
D980,573 S * 3/2023 Zheng D34/7
D981,060 S * 3/2023 Li D32/30
D989,429 S * 6/2023 Chen D32/30
D996,752 S * 8/2023 Meng D32/30
D997,221 S * 8/2023 Suchman D32/31
D1,001,404 S 10/2023 Gao et al.
D1,019,035 S * 3/2024 Jiang D32/30
D1,037,584 S 7/2024 Dai et al.
D1,041,107 S * 9/2024 Xu D32/30
D1,045,299 S * 10/2024 Zeng D32/30
D1,053,486 S * 12/2024 Chen D32/30
D1,054,136 S * 12/2024 Chen D32/30
D1,060,908 S * 2/2025 Chaffin D32/31
2025/0064281 A1 * 2/2025 Gao A47L 9/1436

FOREIGN PATENT DOCUMENTS

CN 309071439 * 1/2025
JP D1742900 * 4/2023
WO WO-D222652-002 * 8/2022

OTHER PUBLICATIONS

Dust Bags for Roborock by ApexOne (online), no date available.
Retrieved from Internet May 3, 2025, URL: [https://www.amazon.sg/Packs-Roborock-Vacuum-Cleaner-Capacity/dp/B0DZWQG3GN/ref\(1 page\).](https://www.amazon.sg/Packs-Roborock-Vacuum-Cleaner-Capacity/dp/B0DZWQG3GN/ref(1%20page).)*

* cited by examiner

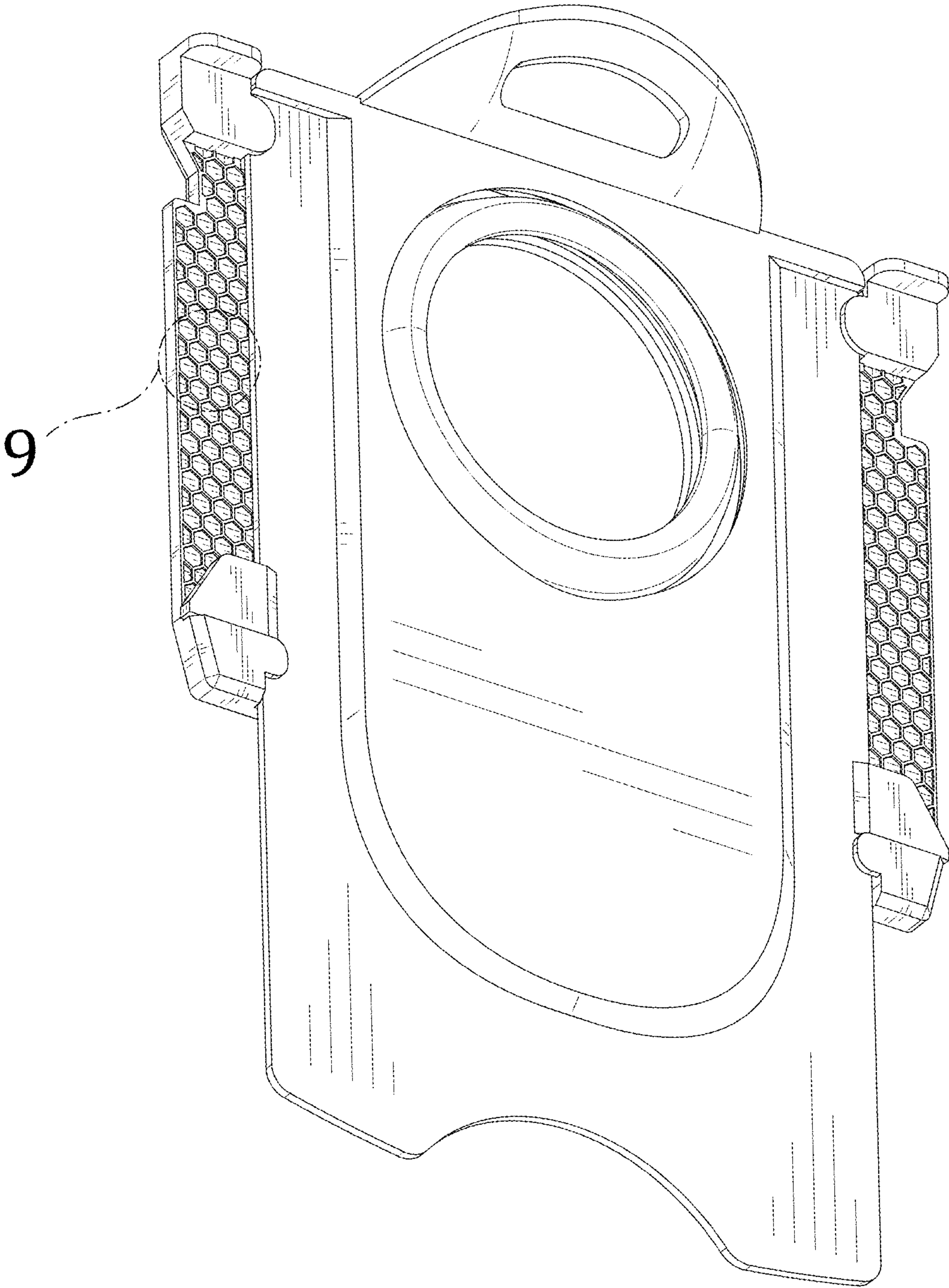


FIG. 1

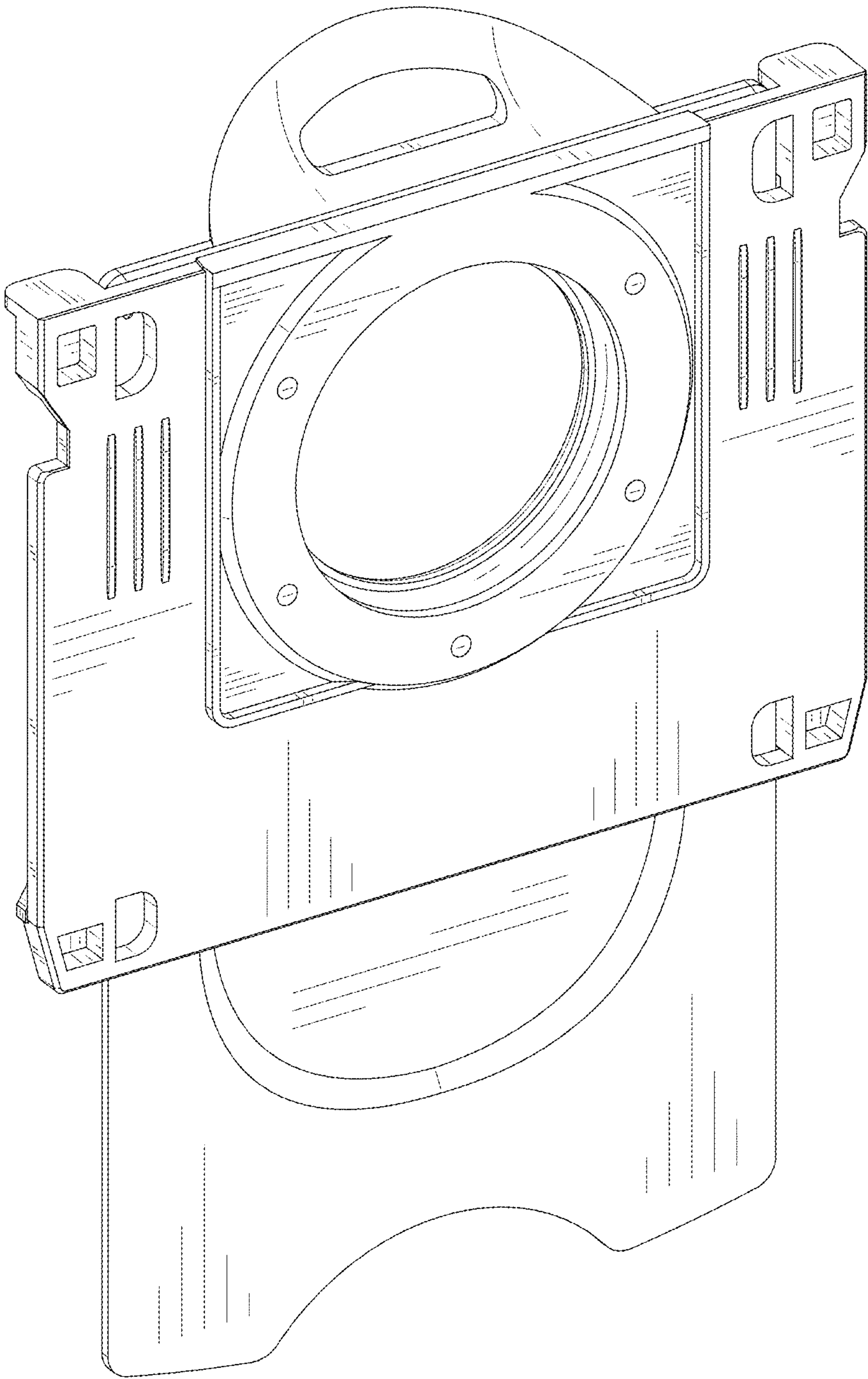


FIG. 2

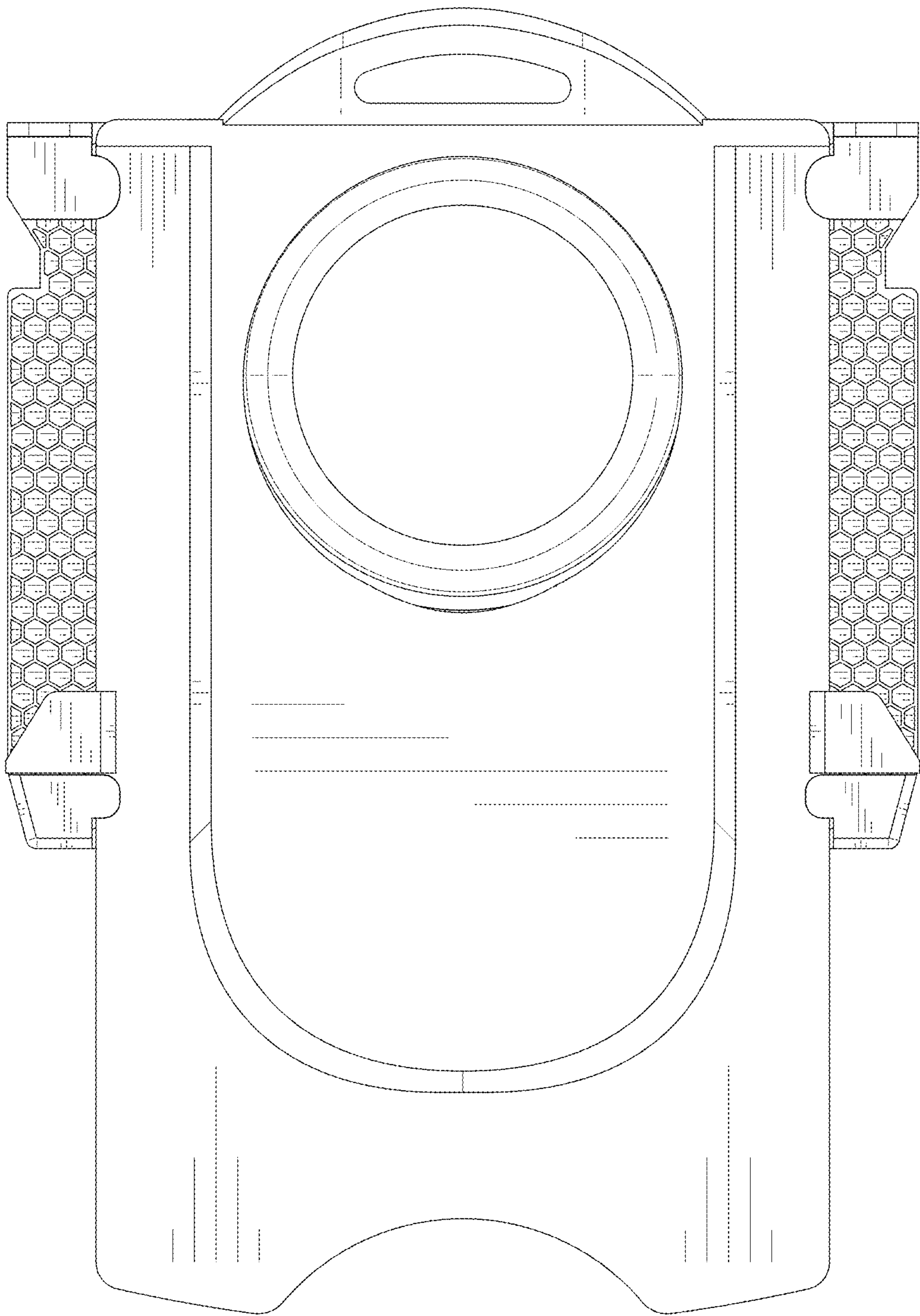


FIG. 3

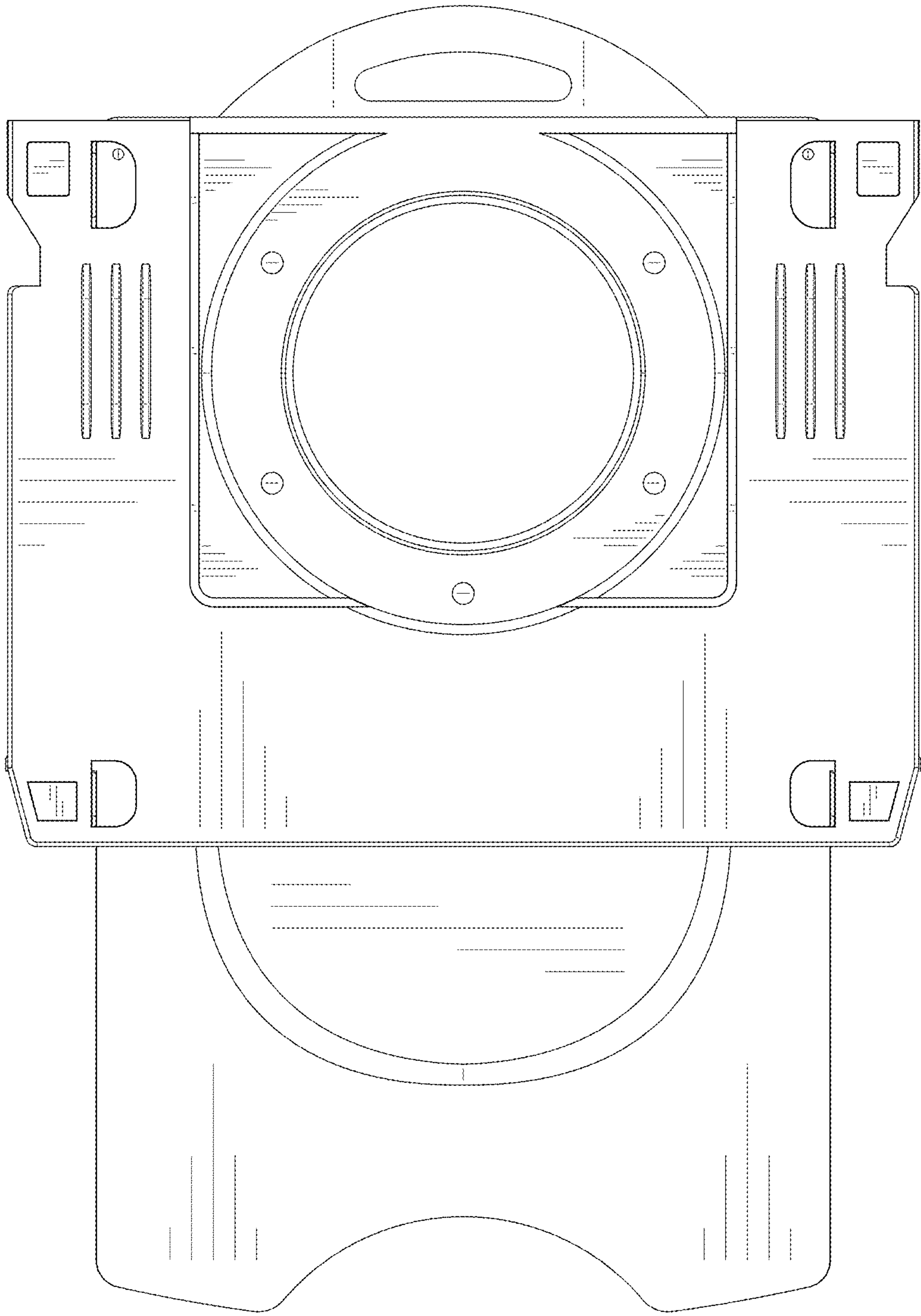


FIG. 4

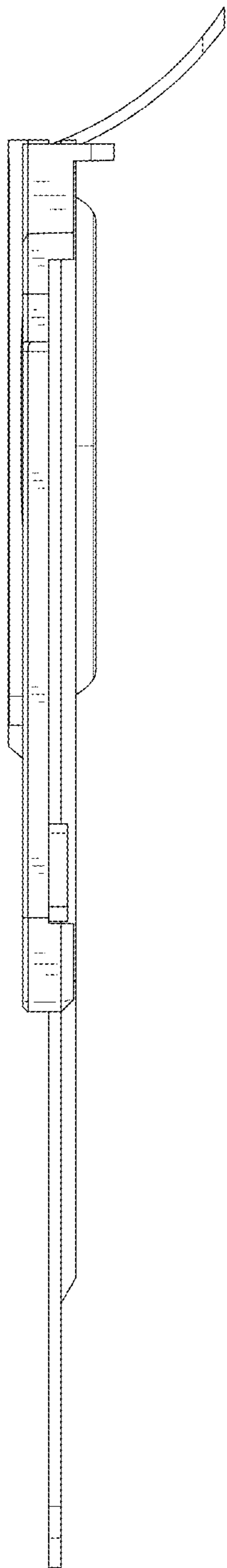


FIG. 5

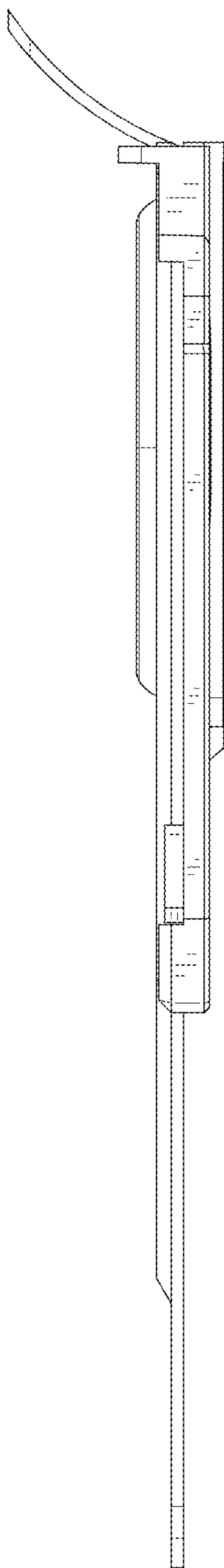


FIG. 6

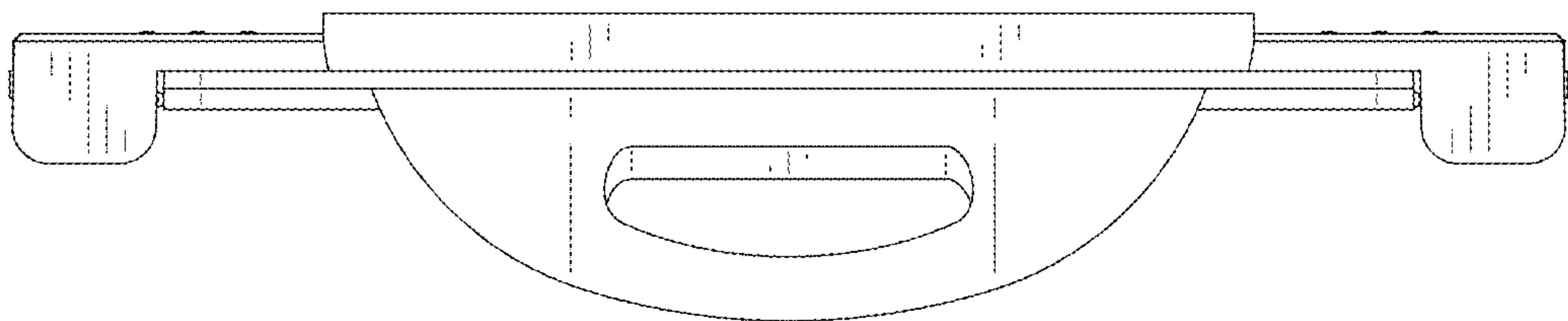


FIG. 7

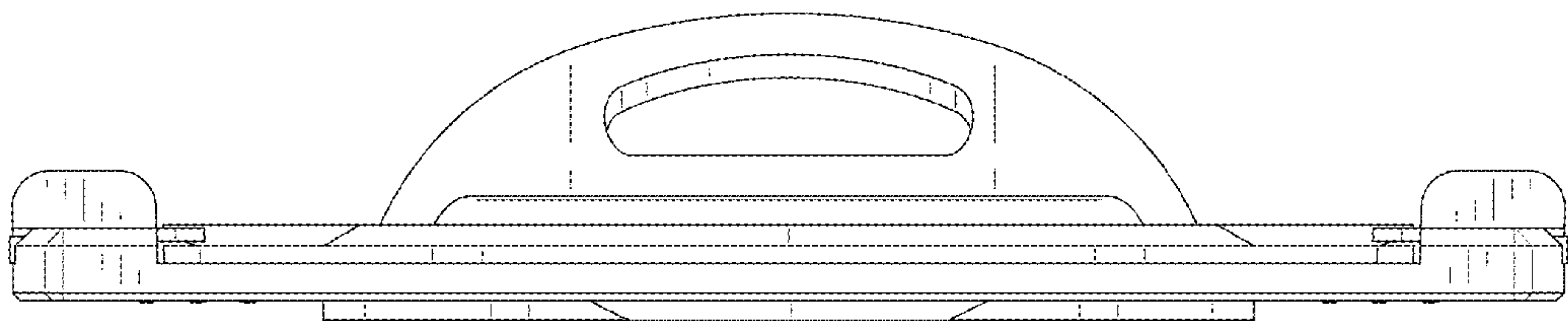


FIG. 8

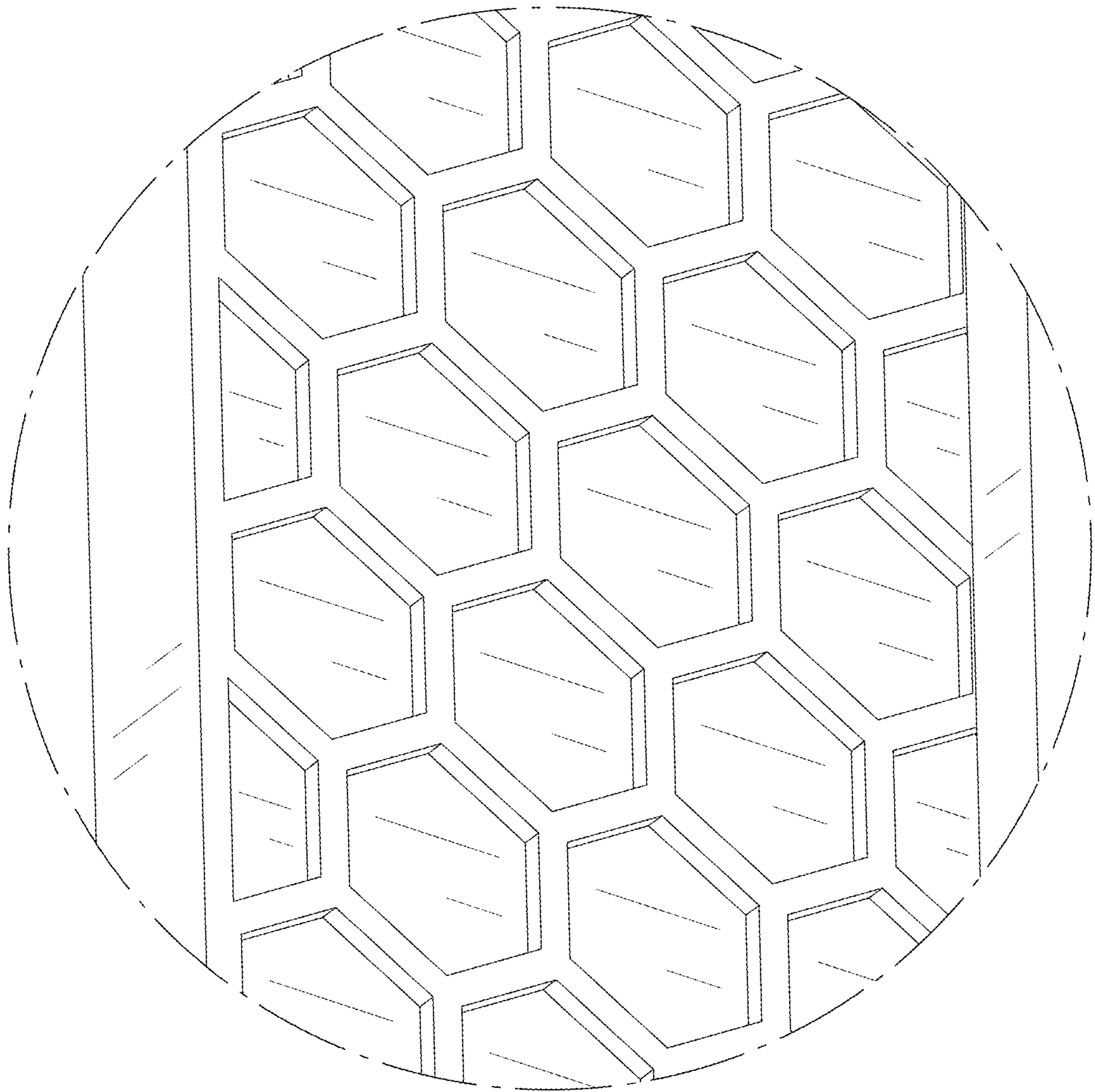


FIG. 9

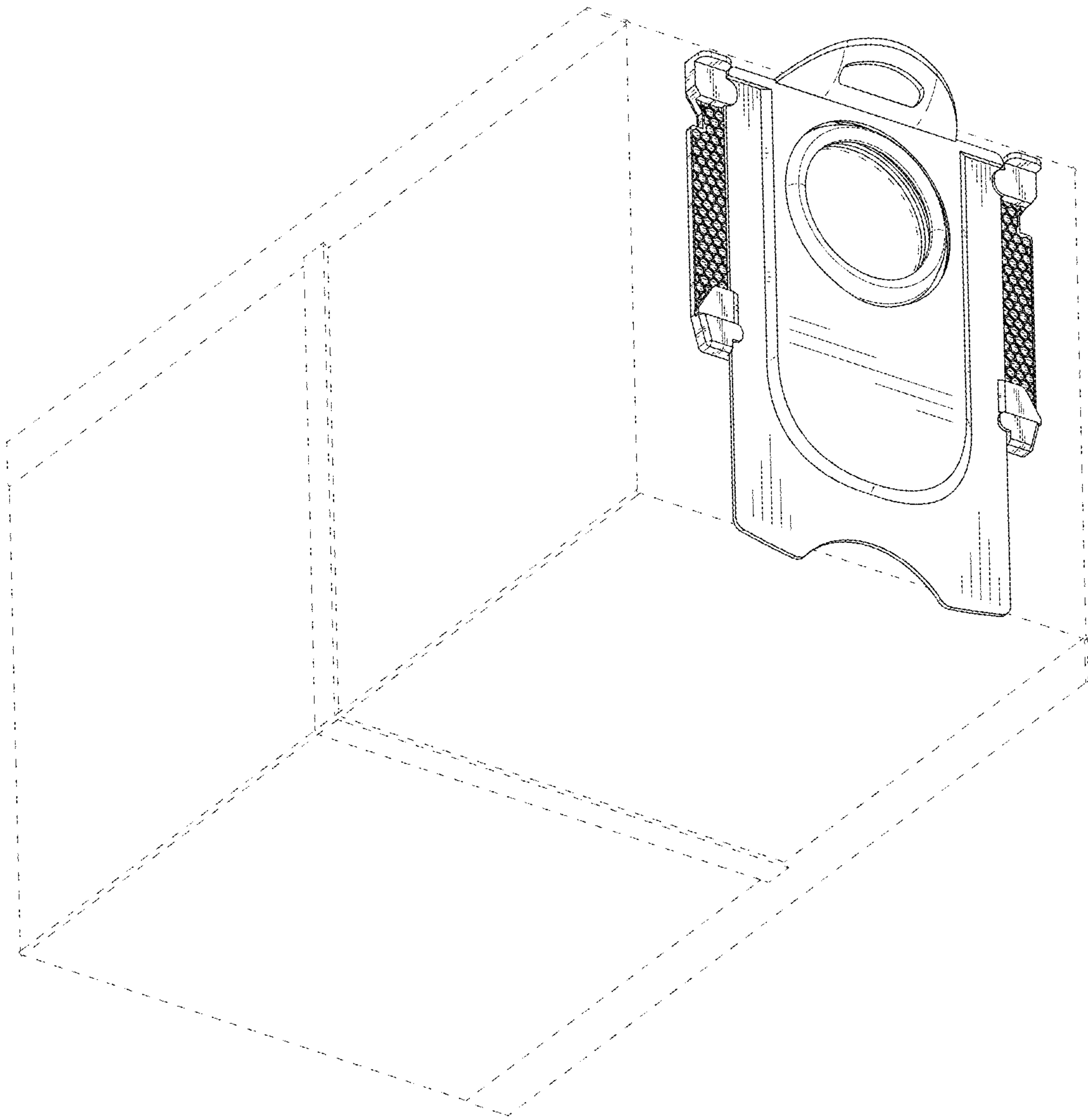


FIG. 10

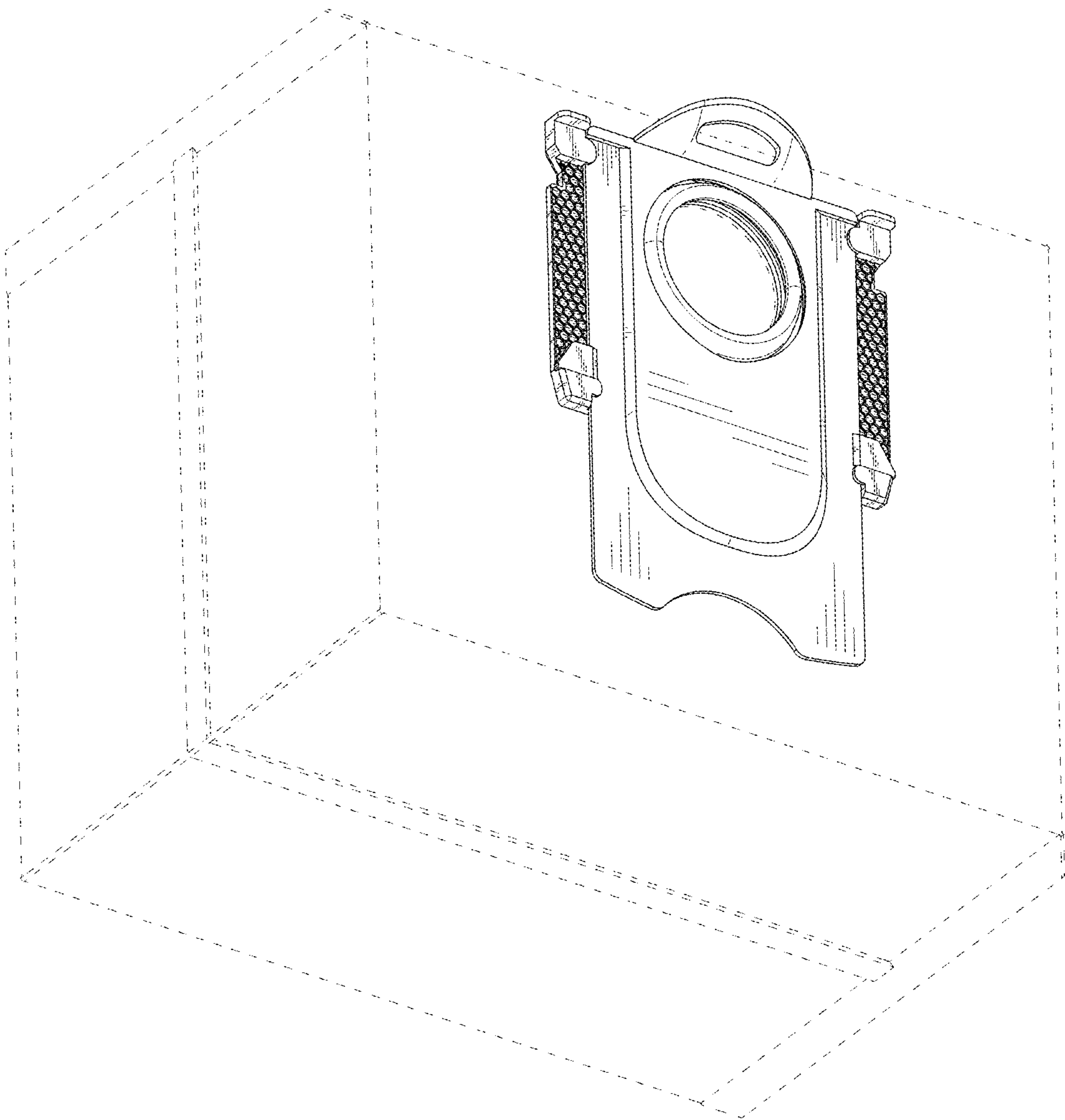


FIG. 11