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Xu

(10)

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(54) ROBOT VACUUM CLEANER DUST BAG

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USPC D32/30; D32/31

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USPC D32/25, 30–31, 39; D9/709; D23/365; D34/1
CPC A47L 9/1683; A47L 9/1427; A47L 9/14; A47L 9/149; A47L 9/1691; A47L 9/1436; Y10S 55/02; Y10S 55/26; Y10S 15/00
See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

3,616,622	A *	11/1971	Friedman	A47L 9/1436
				403/DIG. 1
D251,668	S *	4/1979	Asberg	D32/30
4,274,847	A *	6/1981	Crener	A47L 9/1427
				55/374
4,591,369	A *	5/1986	Stewart, Sr.	A47L 9/1472
				55/374
4,877,432	A *	10/1989	Lackner	A47L 9/1427
				55/377
5,045,099	A *	9/1991	Goldberg	A47L 9/1445
				55/367
5,064,455	A *	11/1991	Lackner	A47L 9/1436
				55/377
5,092,915	A *	3/1992	Lackner	A47L 9/1427
				55/377
5,468,272	A *	11/1995	Schmierer	A47L 9/1445
				55/377

5,472,465	A *	12/1995	Schmierer	A47L 9/1427
				55/377
5,725,620	A *	3/1998	Perea	B01D 46/02
				55/369
6,626,969	B1 *	9/2003	Steele	A47L 9/1436
				55/374
D523,196	S *	6/2006	Bruneau	D32/30
D559,483	S *	1/2008	Matter	D32/31
(Continued)				

FOREIGN PATENT DOCUMENTS

JP D1739241 * 3/2023

OTHER PUBLICATIONS

Byofi Replacement Parts Accessories . . . Vacuum Cleaner Bags, available in Amazon.de, date first available Feb. 13, 2023 [online], [site visited May 31, 2024], Available from the internet URL: <https://www.amazon.de/Ersatzteile-Staubsauger-Rollenb%C3%BCrsten-Seitenb%C3%BCrsten-Staubsaugerbeutel/dp/B0BV6NXWXQ> (Year: 2023).*

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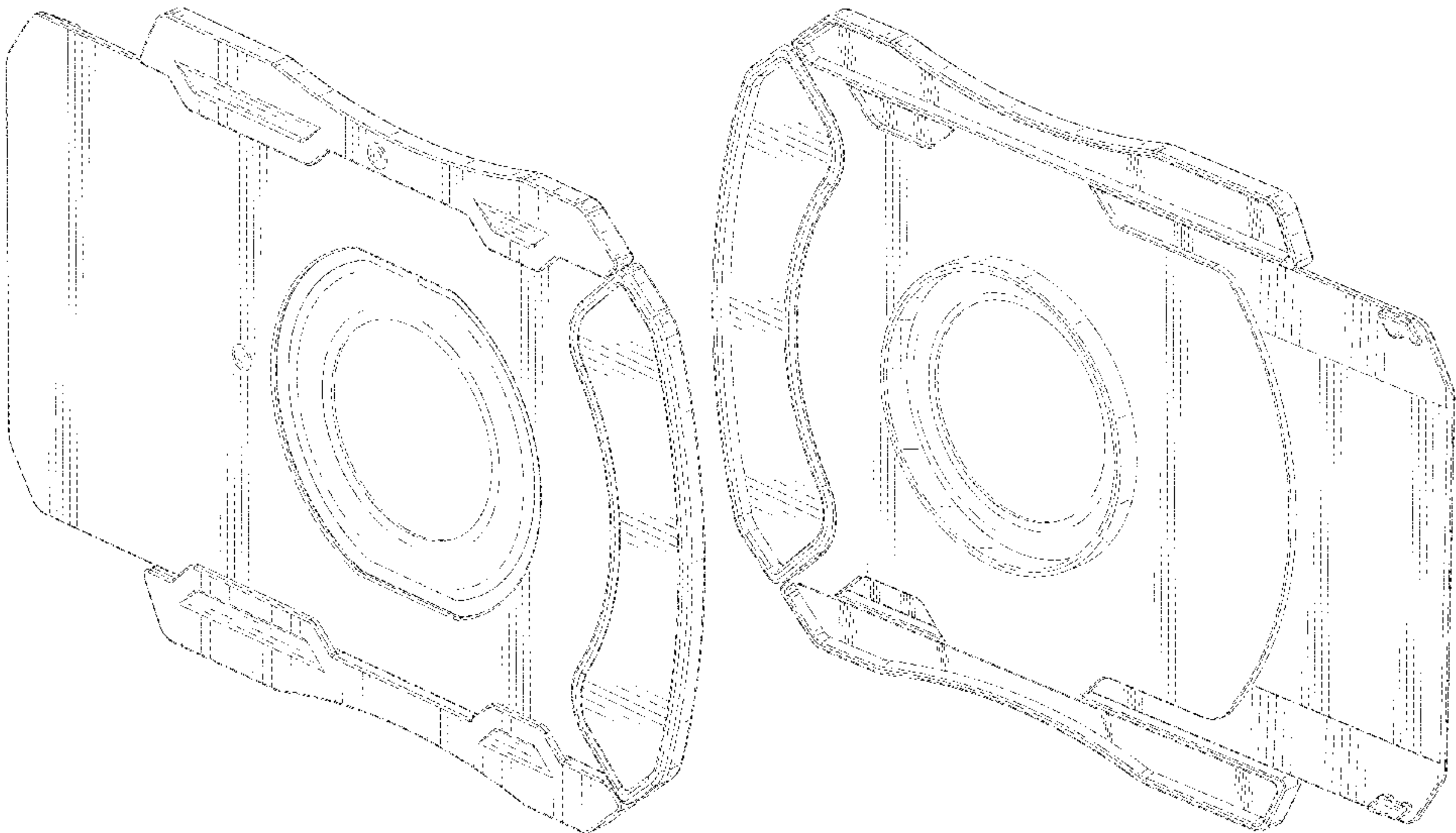
(57) CLAIM

The ornamental design for a robot vacuum cleaner dust bag, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a robot vacuum cleaner dust bag, showing my new design;
FIG. 2 is a rear perspective view thereof;
FIG. 3 is a front view thereof;
FIG. 4 is a rear view thereof;
FIG. 5 is a left side view thereof;
FIG. 6 is a right side view thereof;
FIG. 7 is a top view thereof; and,
FIG. 8 is a bottom view thereof.

1 Claim, 8 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

D600,868	S	*	9/2009	Rennecker	.....	D32/30
D617,064	S	*	6/2010	Hengvoss	.....	D32/30
7,979,956	B2	*	7/2011	Matter	.....	A47L 9/1436
						55/377
D654,234	S	*	2/2012	Hein	.....	D32/30
9,232,880	B2	*	1/2016	Bosses	.....	A47L 9/1436
D868,405	S	*	11/2019	Andrup	.....	D32/30
10,986,969	B2	*	4/2021	Weriuss	.....	A47L 9/1445
D965,244	S	*	9/2022	Zheng	.....	D34/7
D975,391	S	*	1/2023	Li	.....	D32/31
D980,563	S	*	3/2023	Hu	.....	D32/31
D980,564	S	*	3/2023	Zhu	.....	D32/31
D981,060	S	*	3/2023	Li	.....	D32/30
D988,626	S	*	6/2023	Zheng	.....	D32/30
D989,429	S	*	6/2023	Chen	.....	D32/30
D996,752	S	*	8/2023	Meng	.....	D32/30
D1,001,404	S	*	10/2023	Gao	.....	B01D 53/02
						D32/30
D1,019,035	S	*	3/2024	Jiang	.....	D32/30

* cited by examiner

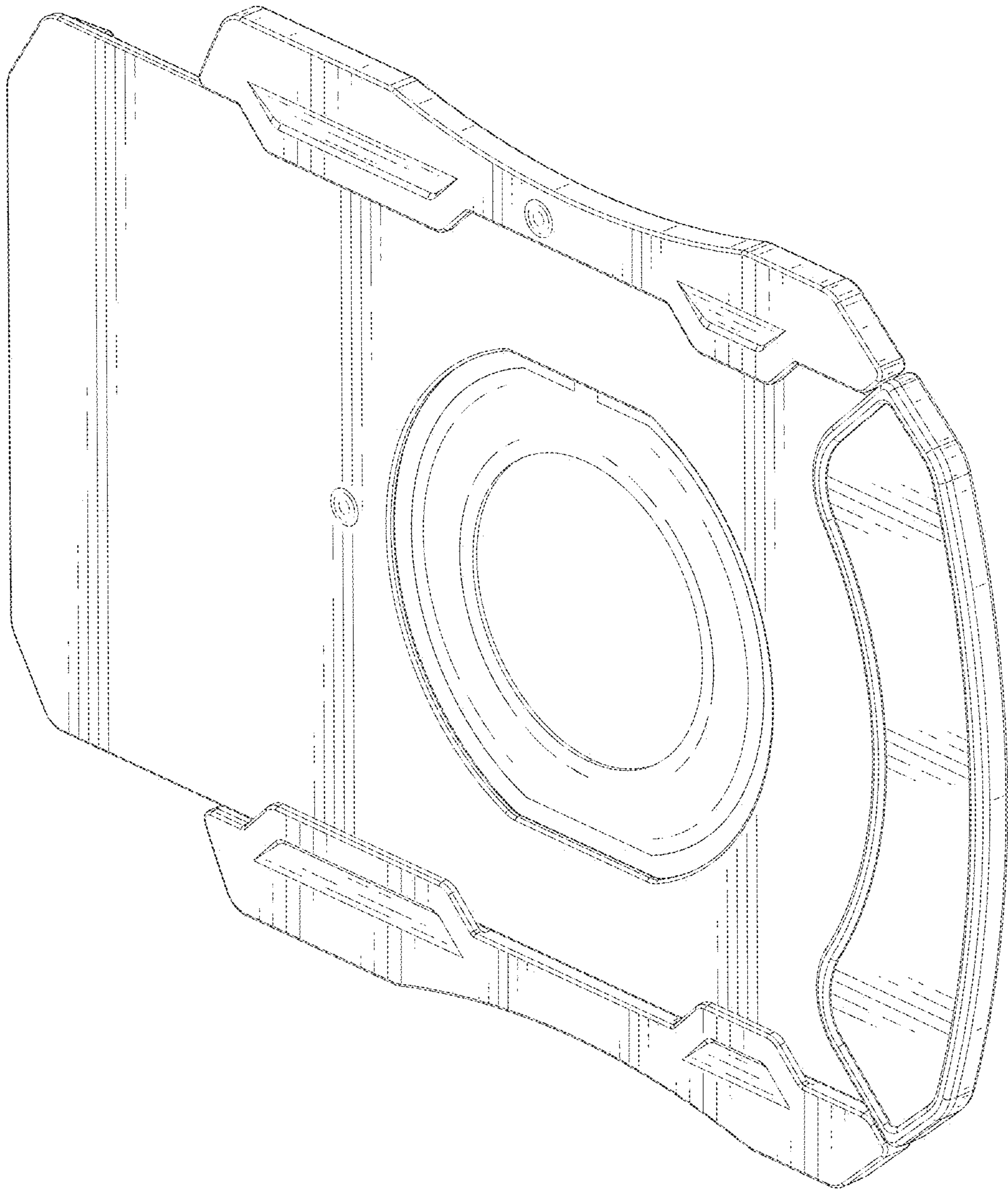


FIG. 1

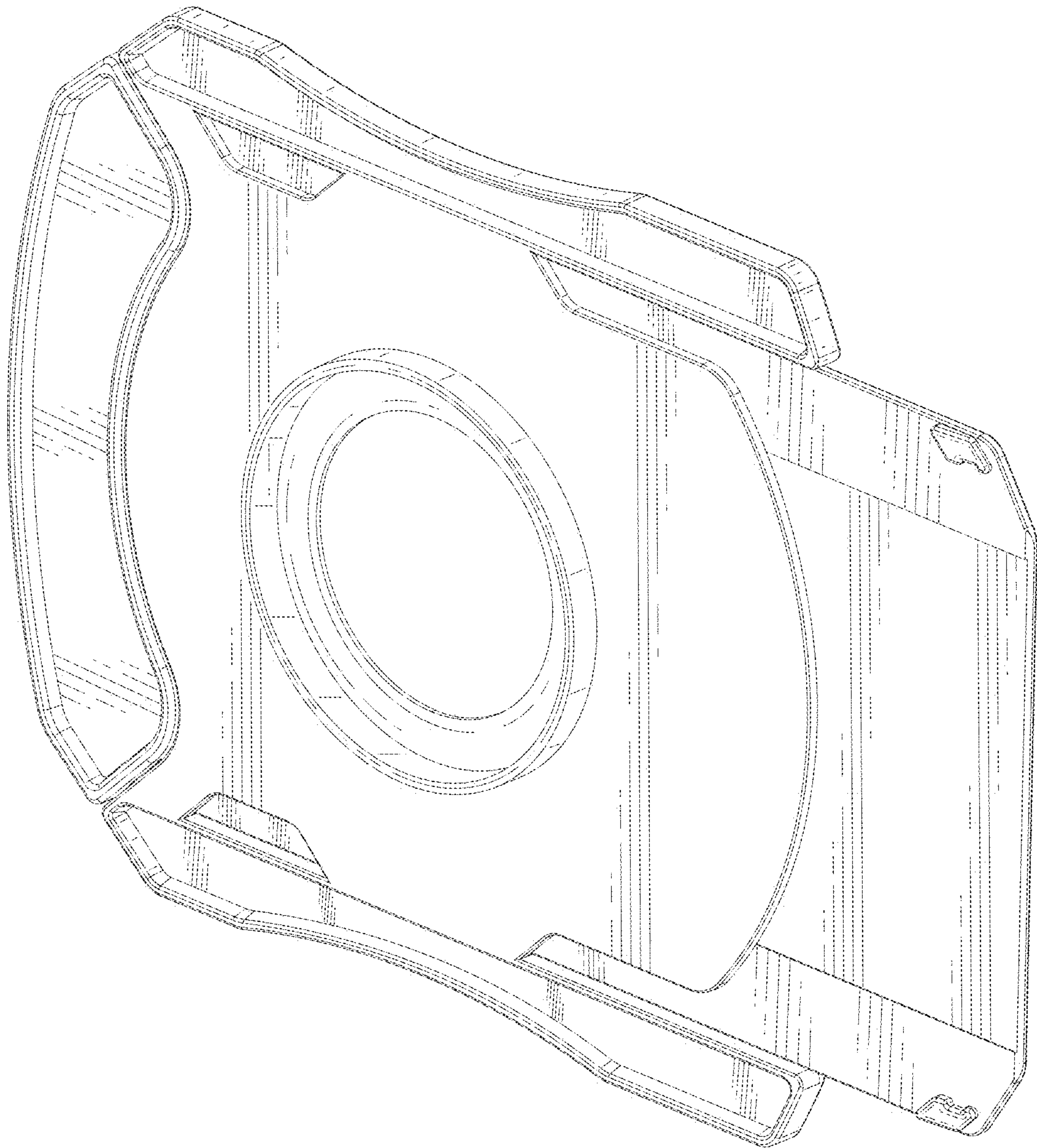


FIG. 2

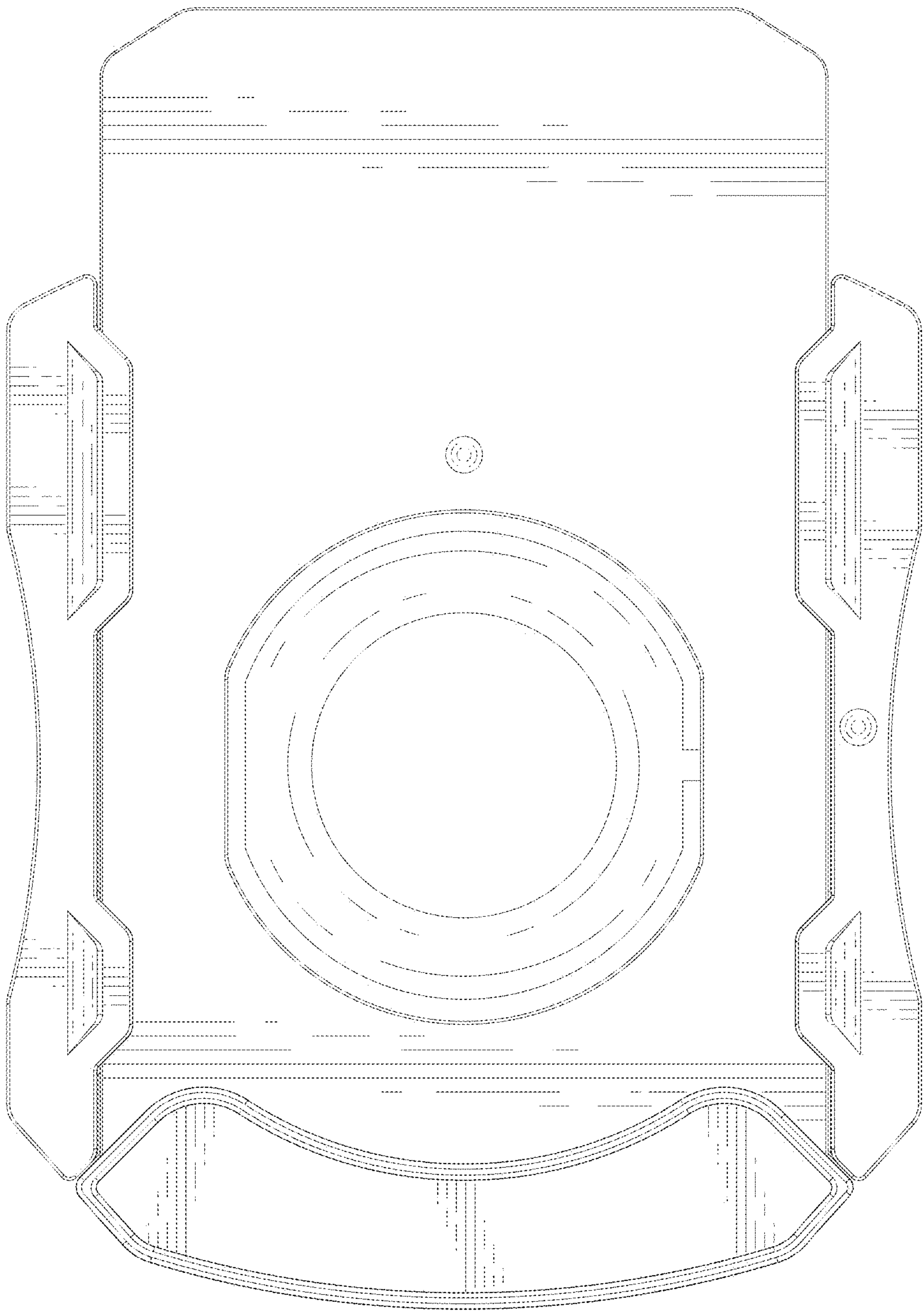


FIG. 3

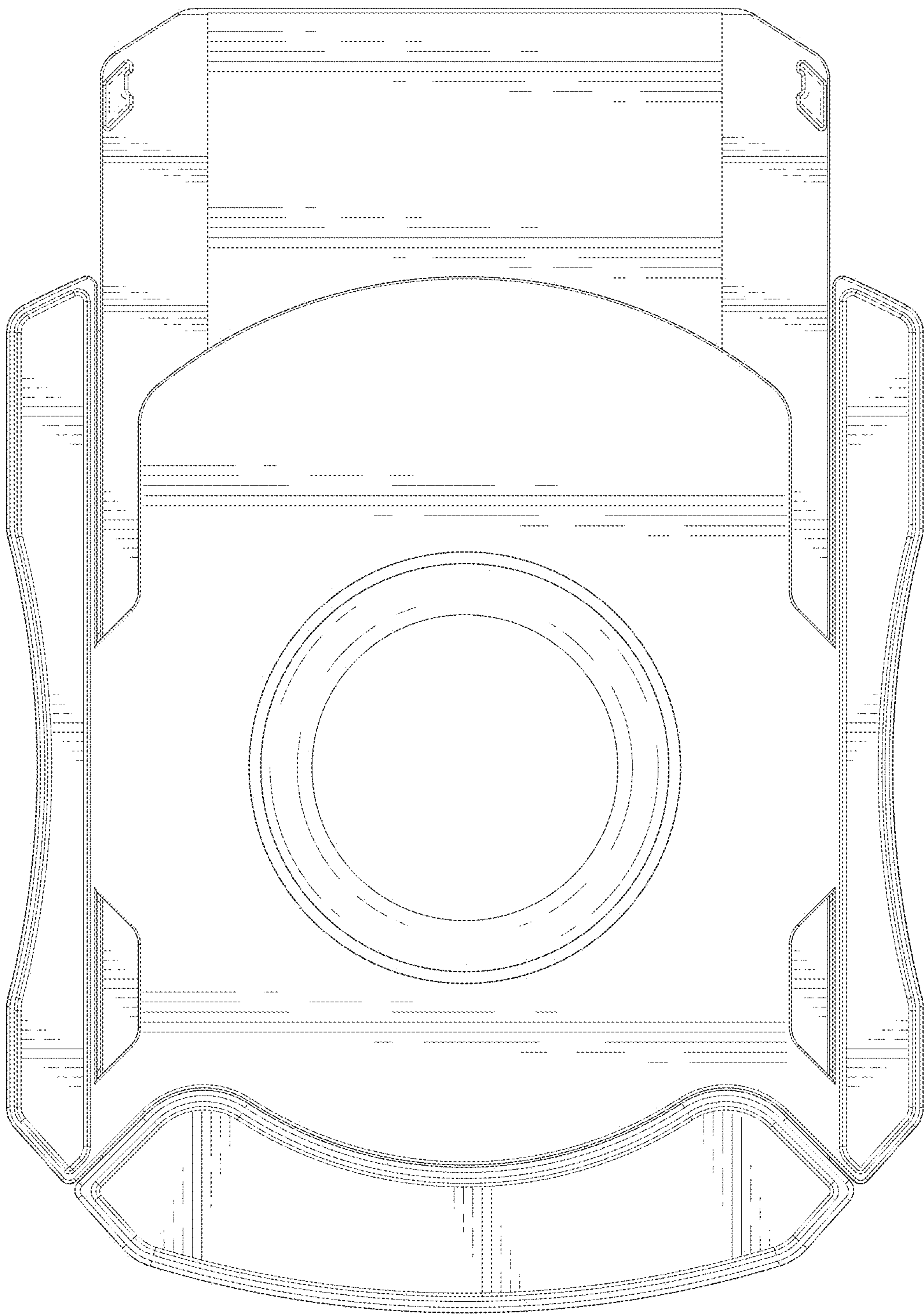


FIG. 4

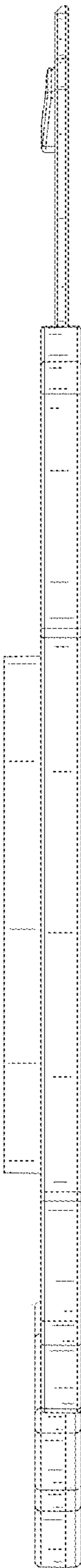


FIG. 5

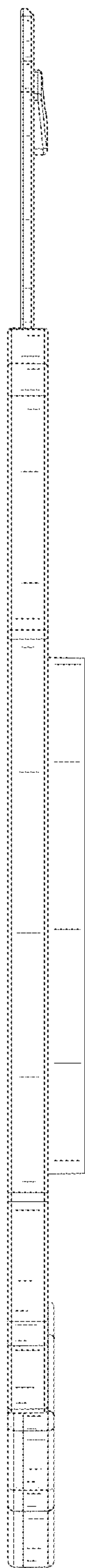


FIG. 6

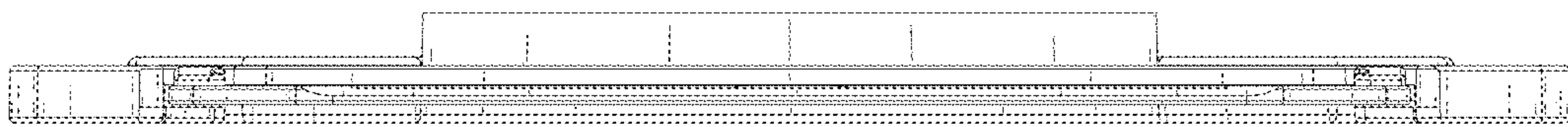


FIG. 7

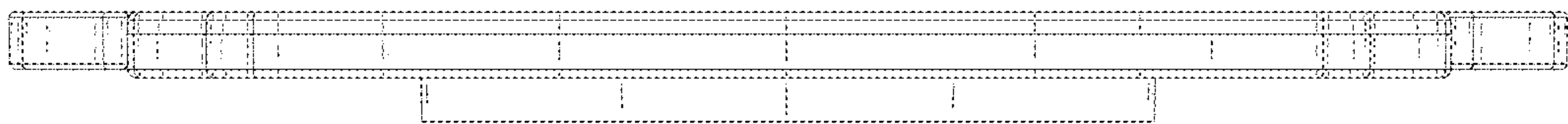


FIG. 8