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(12) United States Design Patent

Thoni et al.

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(54) **ACTUATOR**

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(73) Assignee: **Johnson Controls Technology Company**, Auburn Hills, MI (US)

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

(21) Appl. No.: **29/688,078**

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Related U.S. Application Data

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(51) **LOC (12) Cl.** **15-09**

(52) **U.S. Cl.**
USPC **D15/148**

(58) **Field of Classification Search**
USPC D12/345; D13/118, 158, 162, 184; D15/1–5, 7, 9, 143, 148, 149, 199
CPC B66F 3/18; F16H 19/04; F16H 19/039; H01F 7/066
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,510,850	A		4/1985	Mack
5,101,862	A		4/1992	Leete
5,283,704	A		2/1994	Reidenbach
D400,220	S		10/1998	Nemoto et al.
6,003,431	A		12/1999	Bertini
D597,111	S		7/2009	Takeuchi et al.
D597,112	S		7/2009	Takeuchi et al.
D610,655	S		2/2010	Schmidt
D628,219	S		11/2010	Fukano et al.
D638,454	S		5/2011	Torii et al.
D639,321	S		6/2011	Torii et al.
D660,333	S		5/2012	Takeuchi et al.
D660,334	S		5/2012	Takeuchi et al.
D674,423	S		1/2013	Mangold
D719,595	S		12/2014	Landerholm et al.
D749,226	S		2/2016	Cooper et al.
D775,677	S		1/2017	Jorgensen
D789,432	S		6/2017	Tokuda
D790,616	S		6/2017	Tokuda
D790,617	S		6/2017	Tokuda
D795,935	S		8/2017	Jorgensen
D810,798	S		2/2018	Tabuchi
D851,146	S	*	6/2019	Thoni D15/148

(Continued)

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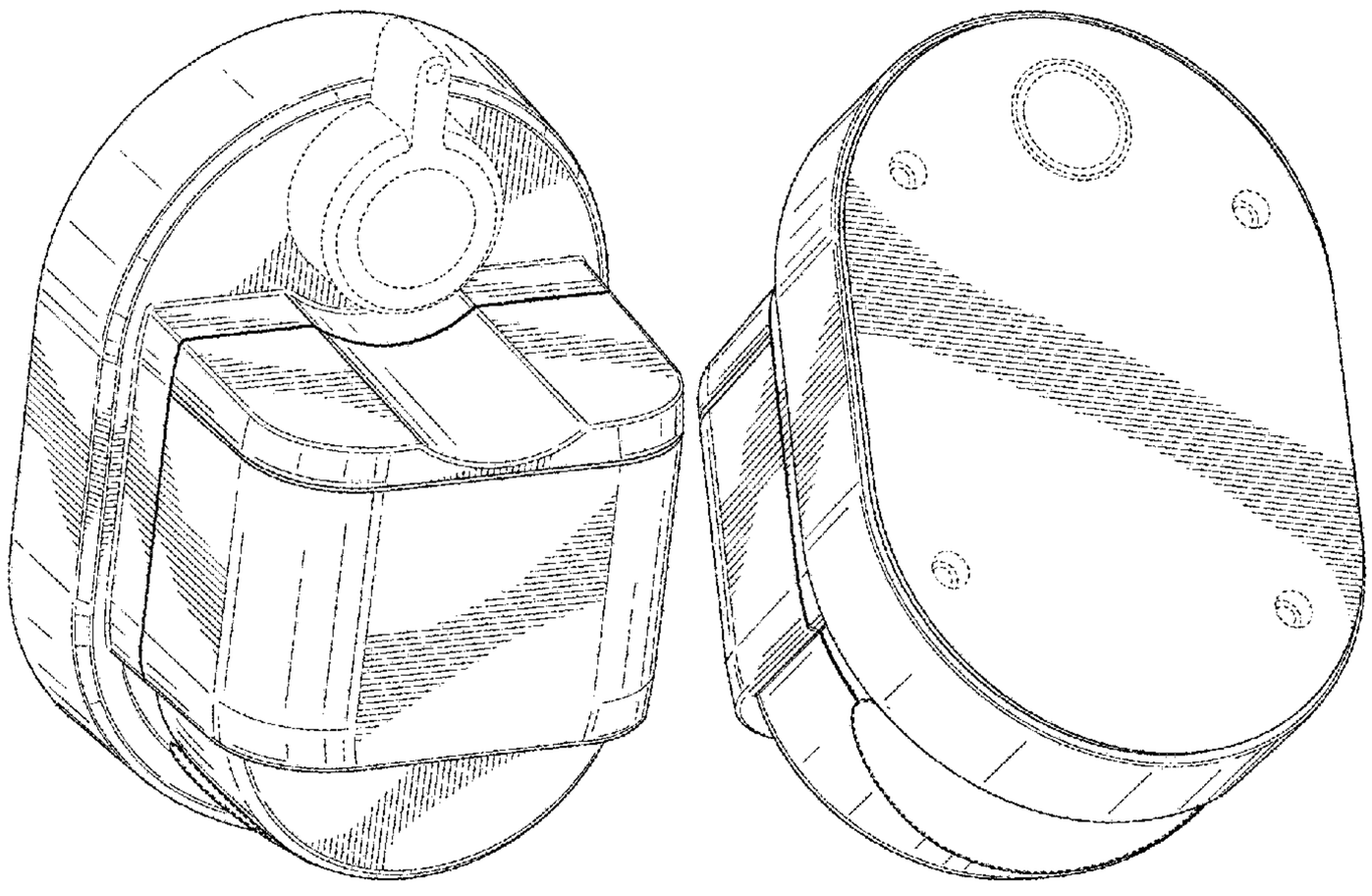
(57) **CLAIM**

We claim the ornamental design for an actuator, as shown and described.

DESCRIPTION

FIG. **1** is a top, front, left perspective view of the claimed design for an actuator;
FIG. **2** is a bottom, rear, right 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.
Any portion of the actuator depicted in broken lines forms no part of the claimed design.

1 Claim, 8 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

2004/0102274	A1	5/2004	Tesar
2005/0122855	A1	6/2005	Choi et al.
2006/0125300	A1	6/2006	Stemmer et al.
2007/0249457	A1	10/2007	Tesar
2008/0120977	A1	5/2008	Safran et al.
2010/0064885	A1	3/2010	Werkhoven
2010/0234967	A1	9/2010	Whiteley et al.
2011/0113912	A1	5/2011	Heurich et al.
2014/0224064	A1	8/2014	Tesar
2015/0117938	A1	4/2015	Flatley et al.
2015/0226367	A1	8/2015	Day et al.
2016/0290371	A1	10/2016	Ryu et al.
2017/0114808	A1	4/2017	Cowie et al.
2017/0222517	A1	8/2017	Kobayashi
2018/0172032	A1	6/2018	Modinger et al.

* cited by examiner

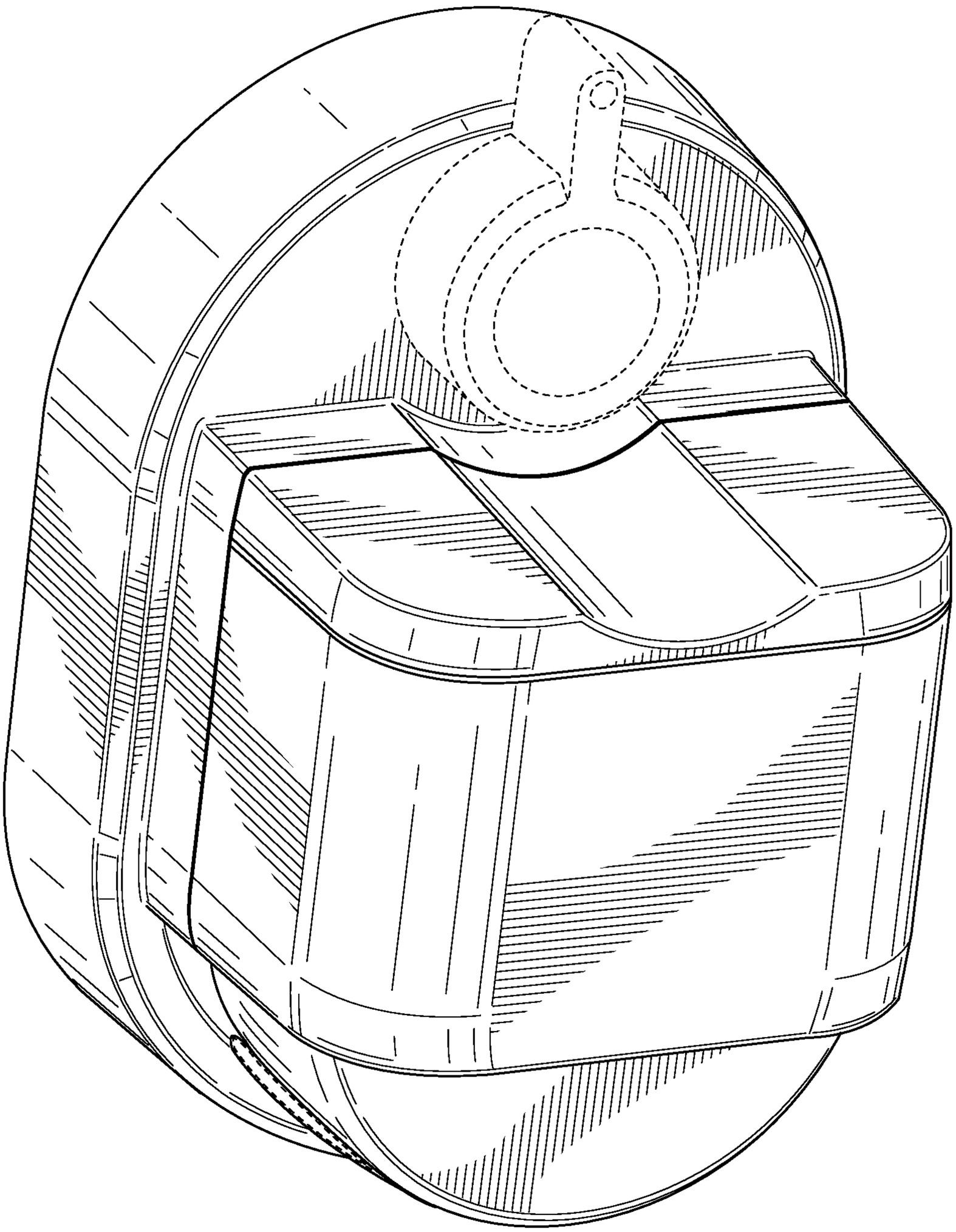


FIG. 1

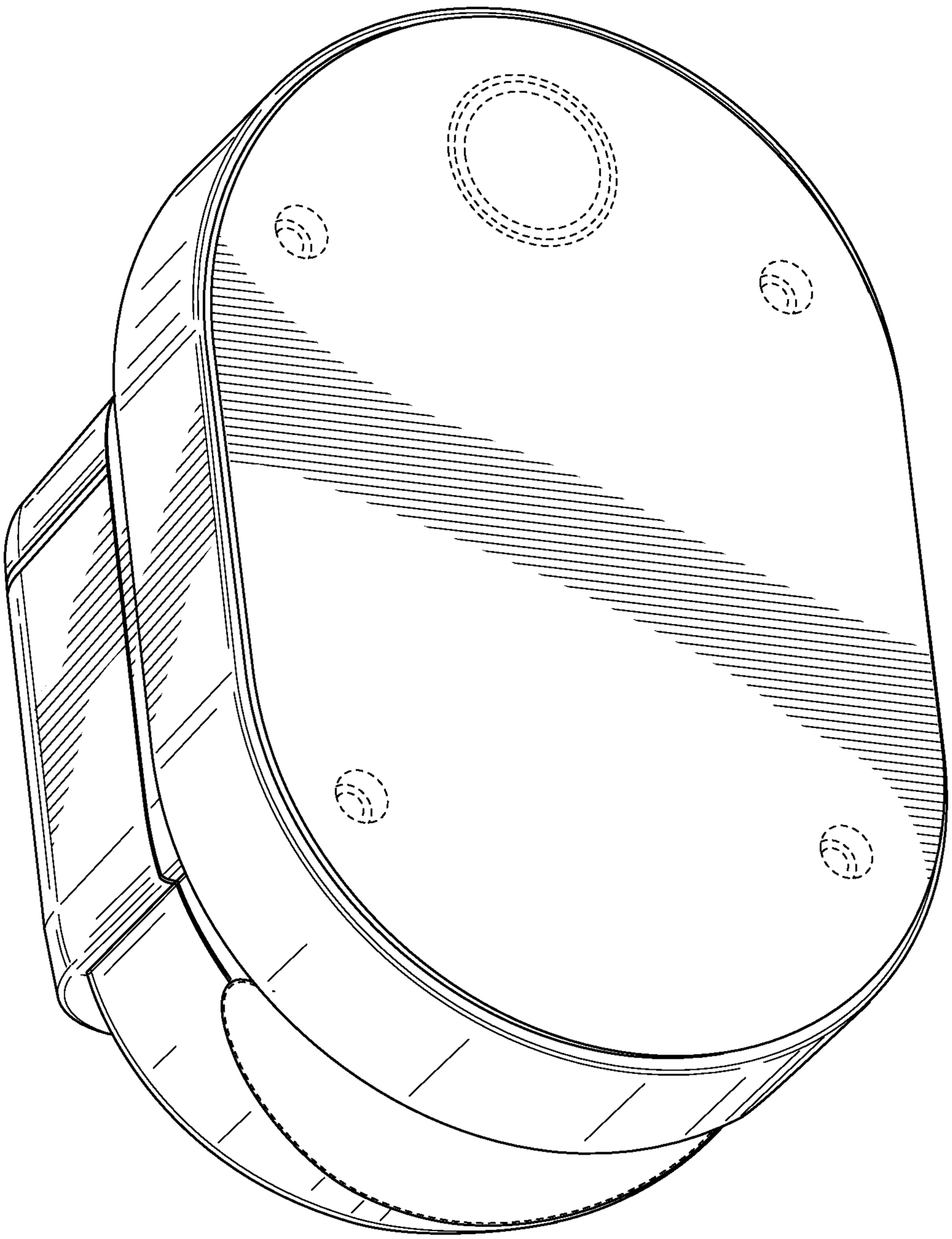


FIG. 2

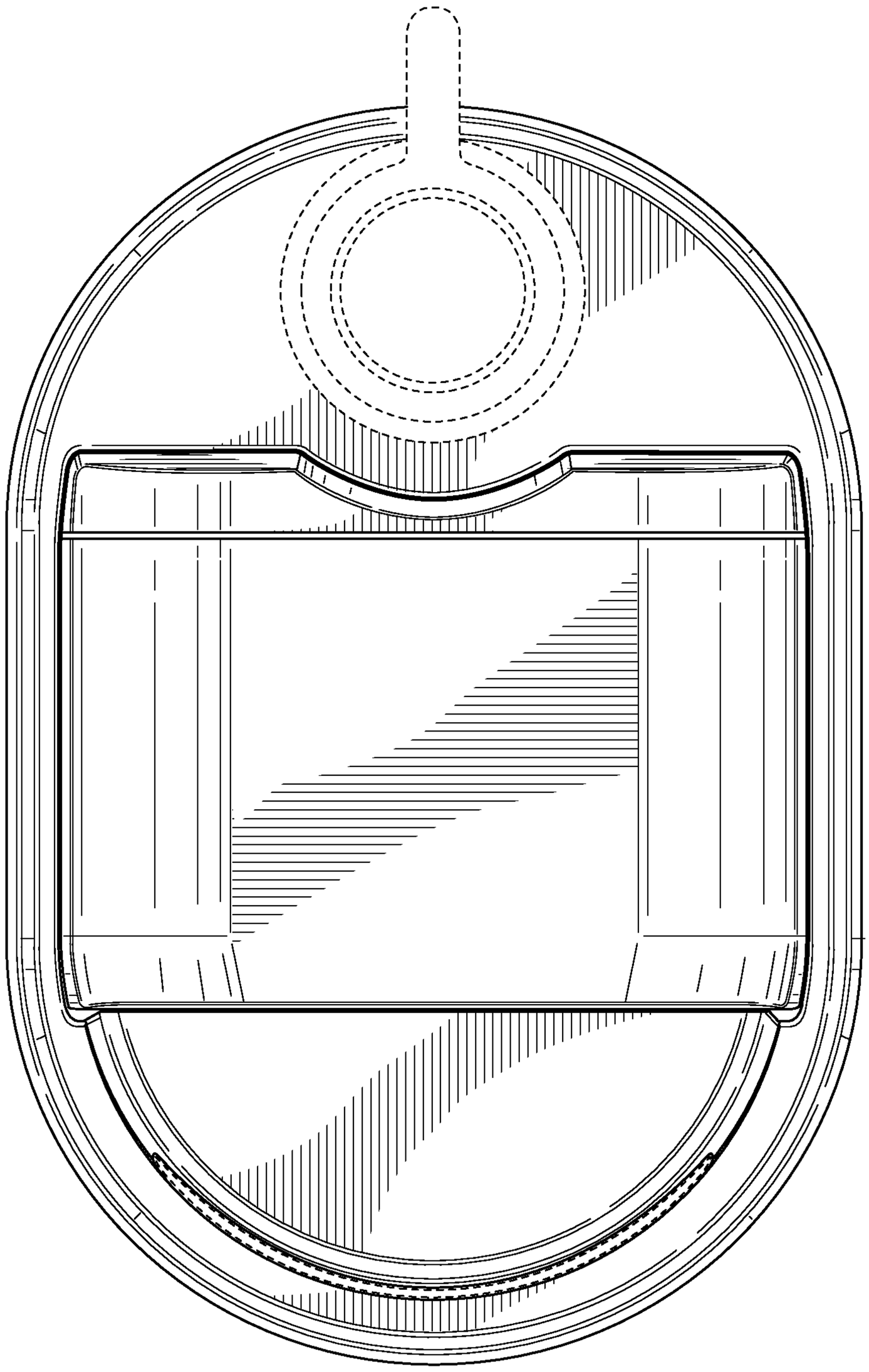


FIG. 3

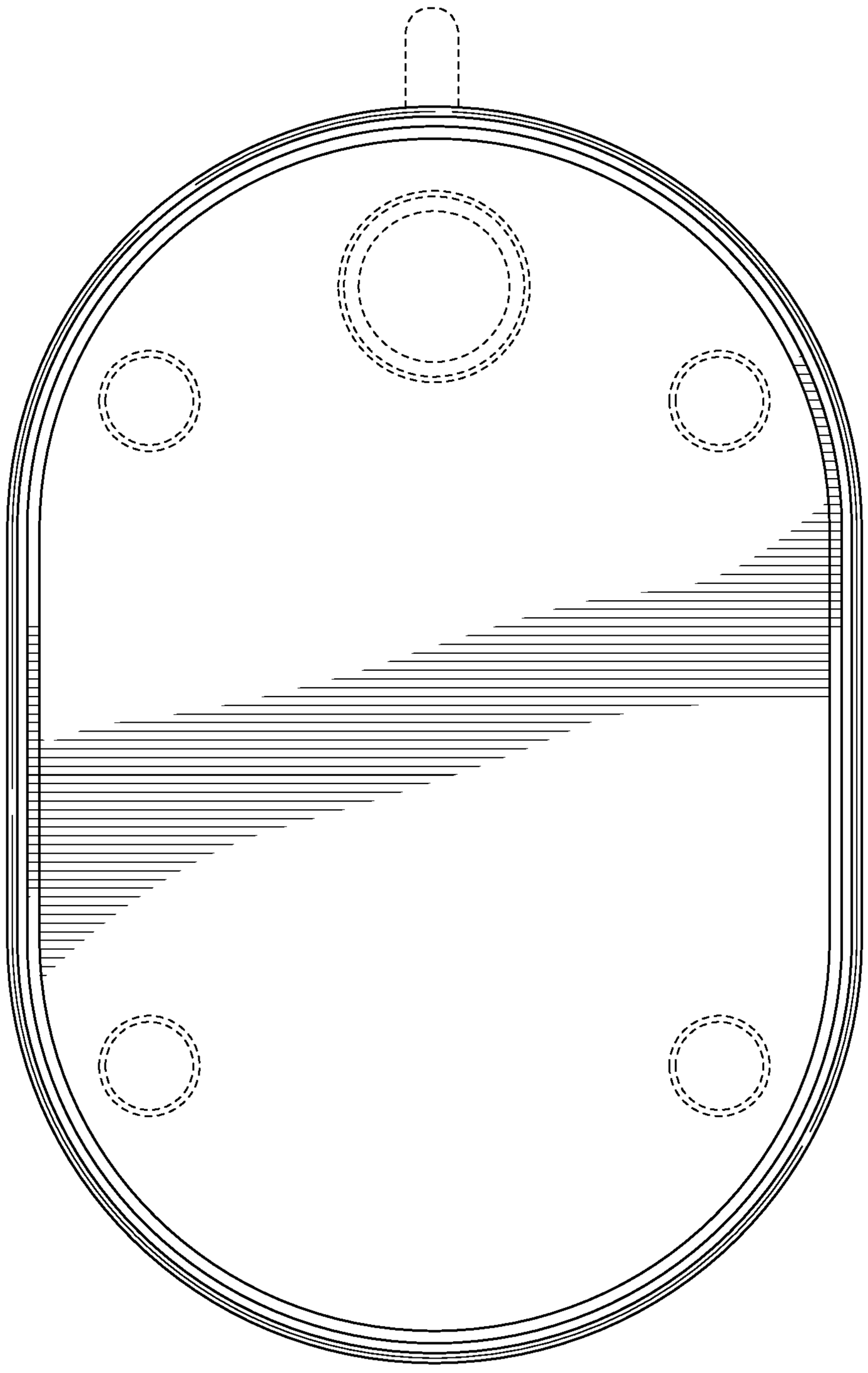


FIG. 4

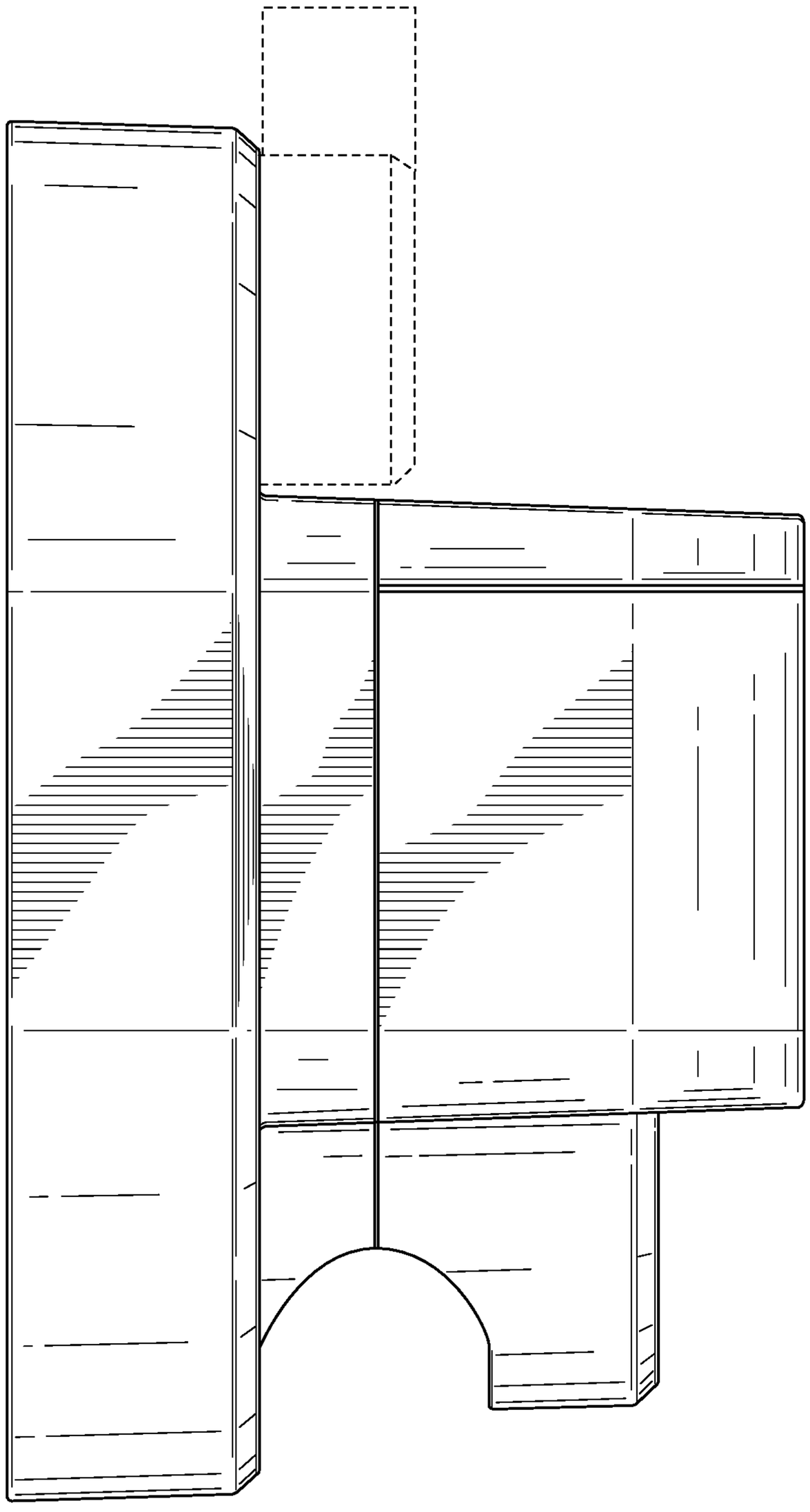


FIG. 5

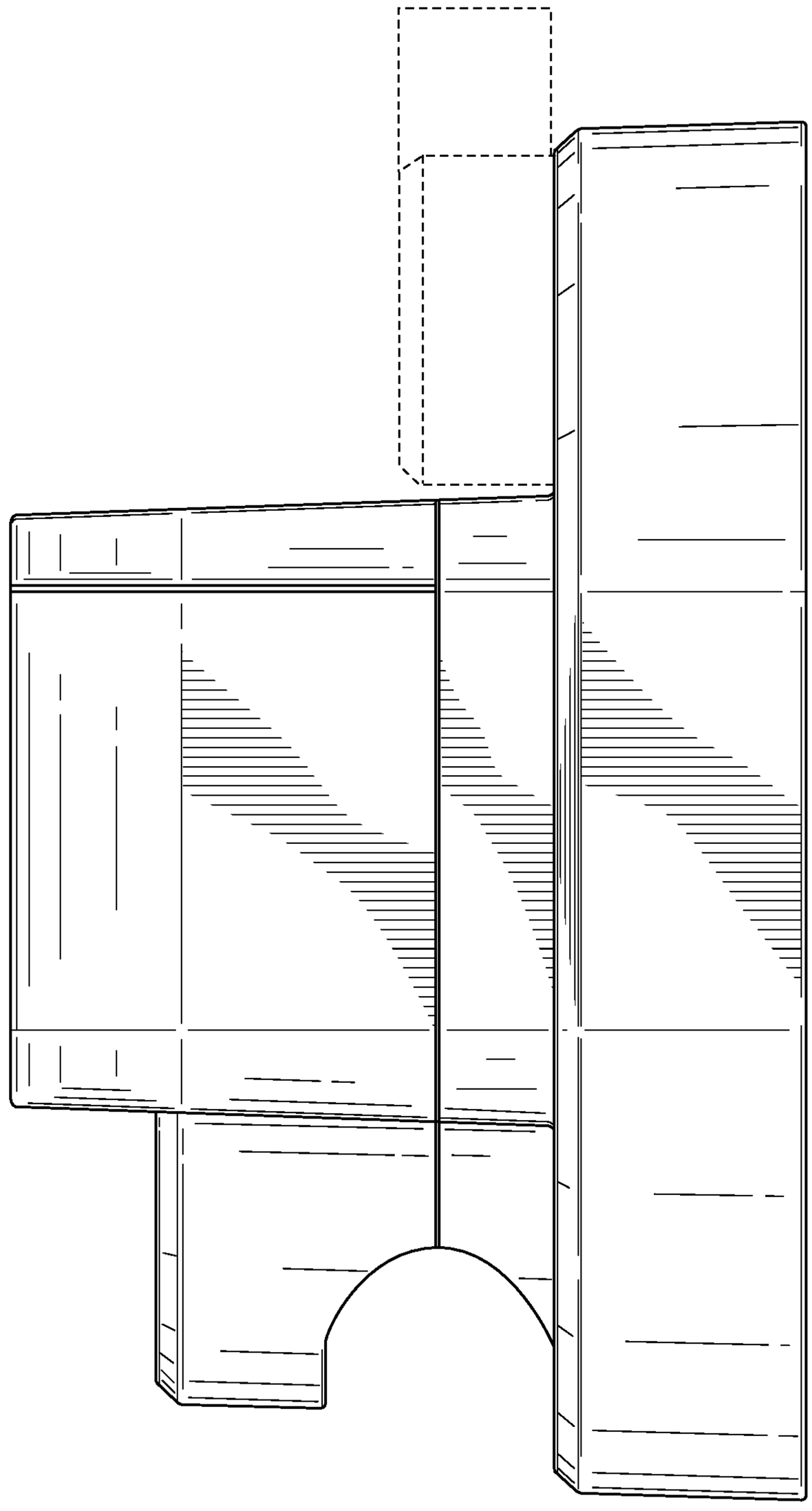


FIG. 6

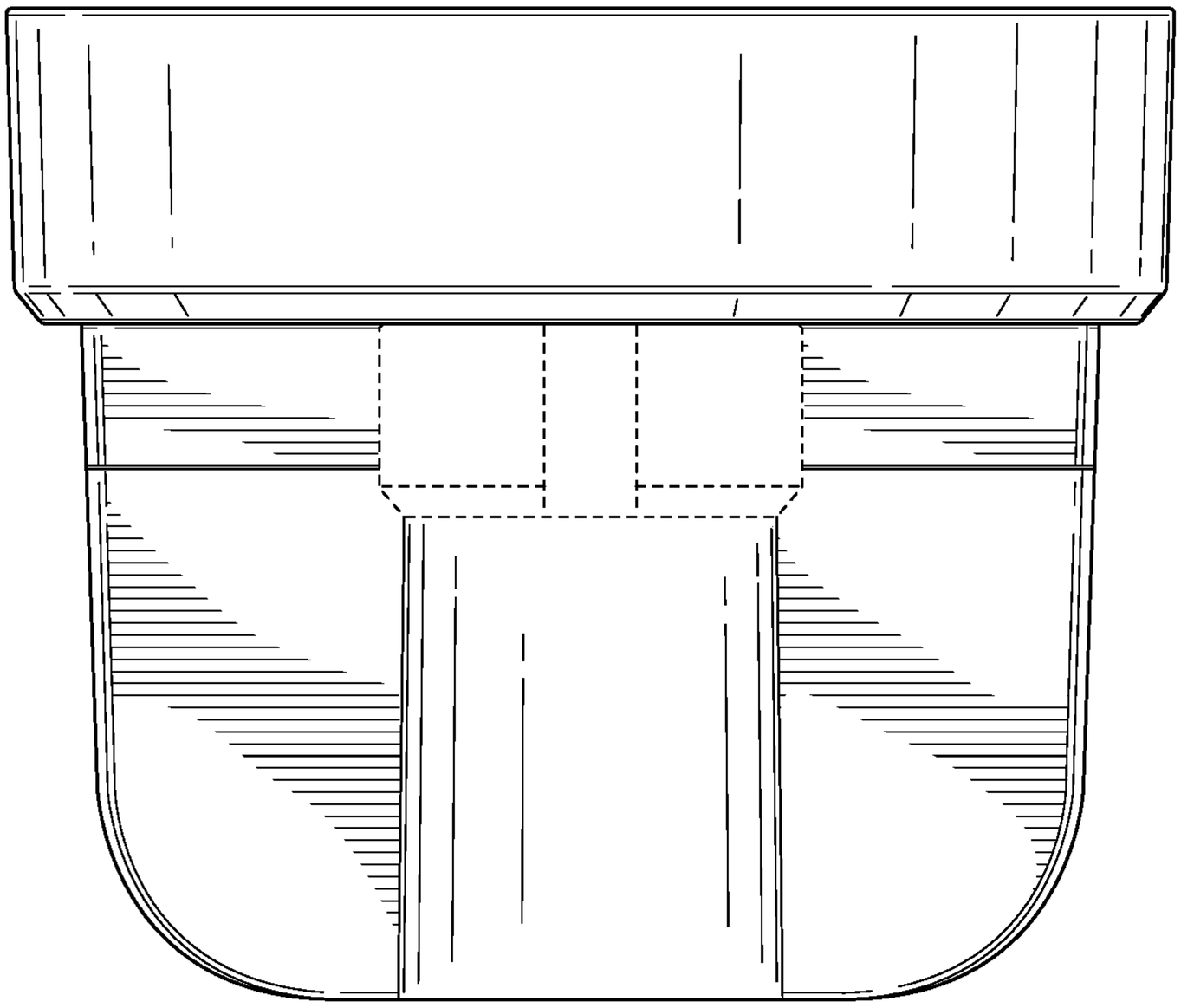


FIG. 7

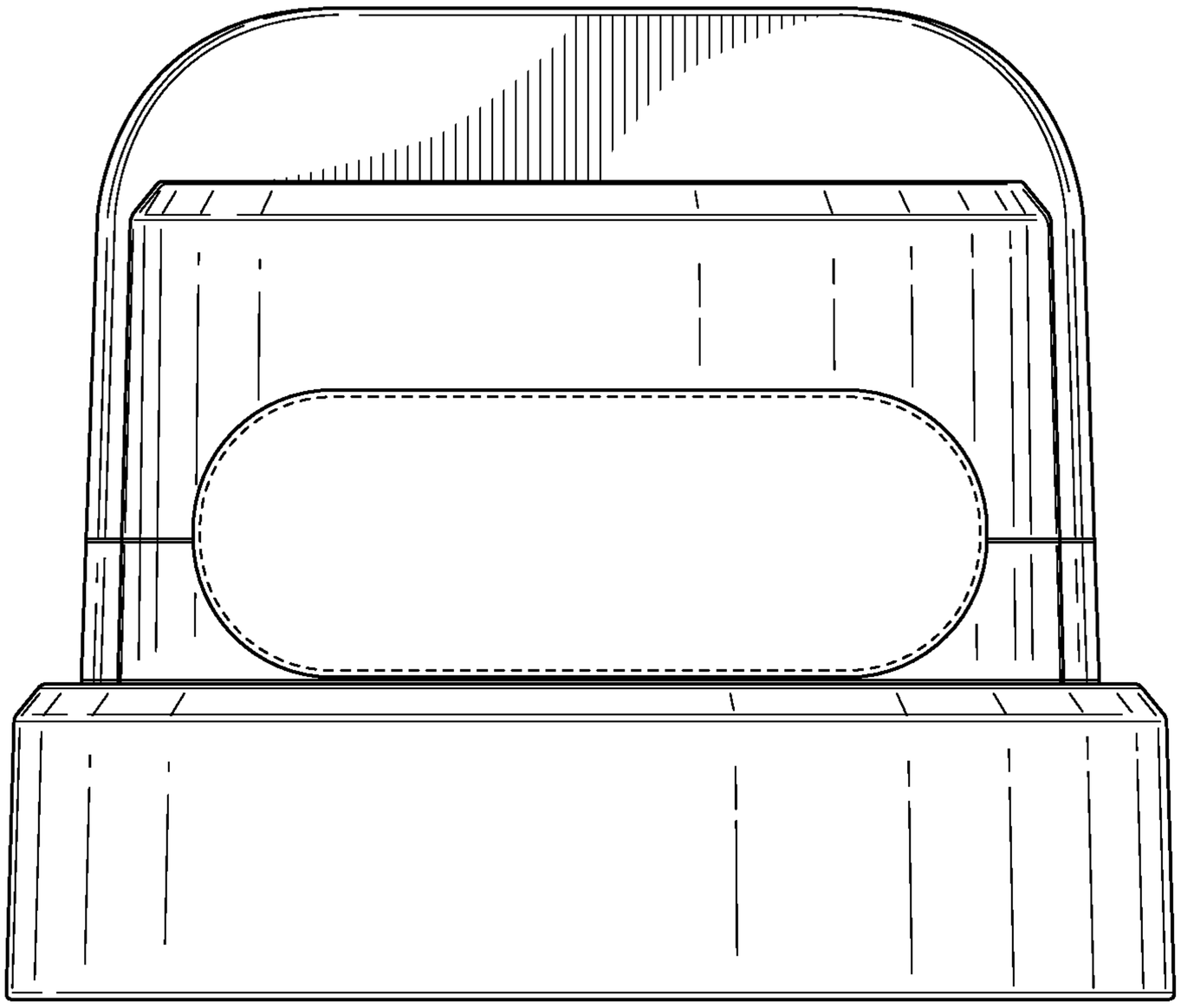


FIG. 8