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(12) United States Design Patent

Koegler et al.

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(54) **MOTOR CONTROLLER**

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(73) Assignee: **ENVIRONMENT ONE CORPORATION**, Niskayuna, NY (US)

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

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Related U.S. Application Data

(63) Continuation-in-part of application No. PCT/US2018/020637, filed on Mar. 2, 2018.

(51) **LOC (12) Cl.** **15-01**

(52) **U.S. Cl.**
USPC **D15/5**

(58) **Field of Classification Search**
USPC D15/1–5; D13/184, 179, 119, 122, 112, D13/162, 164
CPC H02P 1/445; H02H 3/08; H02H 7/085
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,643,142	A	2/1972	McBride, Jr.
3,978,382	A	8/1976	Pfarrer et al.
4,196,462	A	4/1980	Pohl
4,614,904	A	9/1986	Yamazaki et al.
4,841,404	A	6/1989	Marshall et al.
4,885,655	A	12/1989	Springer et al.
4,919,343	A	4/1990	Van Luik, Jr. et al.
5,553,794	A	9/1996	Oliver et al.
5,617,001	A	4/1997	Nacewicz et al.
5,883,488	A	3/1999	Woodward
5,969,497	A	10/1999	McDonald et al.
6,341,944	B1	1/2002	Butcher

(Continued)

FOREIGN PATENT DOCUMENTS

GB	442561	11/1936
JP	2017022877	1/2017

(Continued)

OTHER PUBLICATIONS

Motor Controller, available from Environmental One, Niskayuna, New York, 1 page, at least as early as 2008.

(Continued)

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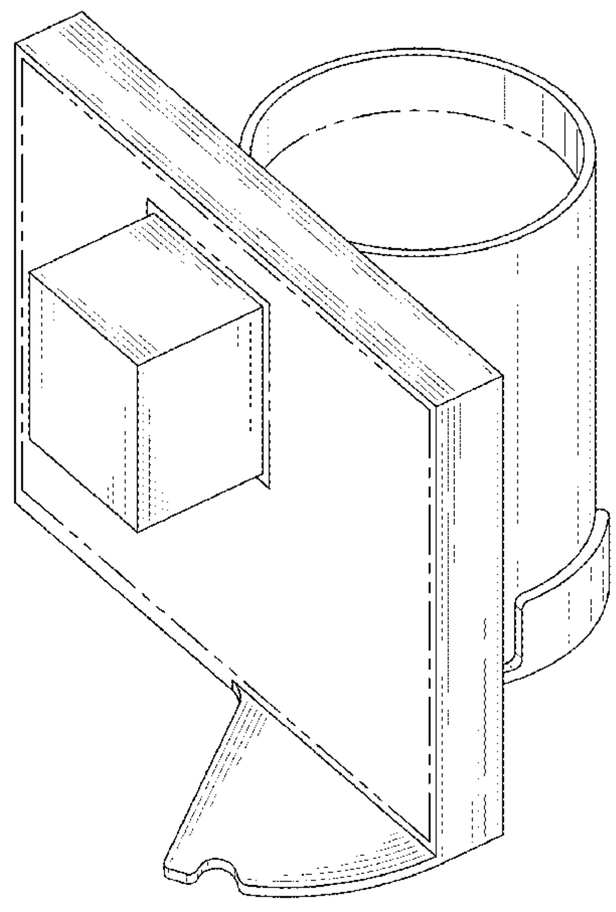
(57) **CLAIM**

The ornamental design for a motor controller, as shown and described.

DESCRIPTION

FIG. **1** is a front perspective view of a motor controller according to the new design;
FIG. **2** is a rear perspective view thereof;
FIG. **3** is a front elevational view thereof;
FIG. **4** is a right side elevational view thereof;
FIG. **5** is a left side elevational view thereof;
FIG. **6** is a rear elevational view thereof;
FIG. **7** is a top plan view thereof; and,
FIG. **8** is a bottom plan view thereof.
The dash-dot-dot-dash lines in FIGS. **1-3** and **7** represent boundaries of the claimed design.

1 Claim, 8 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

6,486,399	B1 *	11/2002	Armstrong	H05K 5/0204 174/58
D506,185	S	6/2005	Kim	
6,989,649	B2	1/2006	Mehlhorn	
7,630,180	B2	12/2009	Schmidt et al.	
7,804,270	B2	9/2010	Kadah	
7,821,222	B2	10/2010	Borsting et al.	
D647,846	S	11/2011	Engblom et al.	
8,378,619	B2	2/2013	Hancock et al.	
8,678,303	B2	3/2014	Capano	
9,559,619	B2	1/2017	Peterson et al.	
9,756,741	B2 *	9/2017	Blossfeld	H01R 43/16
D803,790	S	11/2017	Khoshreza et al.	
D829,173	S	9/2018	Stockman	
D850,487	S	6/2019	Squire	
2005/0158177	A1	7/2005	Mehlhorn	
2010/0207569	A1	8/2010	Zhao	
2011/0002792	A1	1/2011	Bartos et al.	
2011/0085307	A1 *	4/2011	Burgi	H05K 5/0073 361/752
2014/0065877	A1 *	3/2014	Ohhashi	H05K 5/0052 439/519
2016/0031398	A1 *	2/2016	Azuma	B60R 21/01 361/752
2017/0341607	A1 *	11/2017	Sumida	B60R 16/0239

FOREIGN PATENT DOCUMENTS

WO	99122253		3/1999
WO	2009148197	A1	12/2009
WO	2011062361	A2	5/2011
WO	2018160950	A1	7/2018

OTHER PUBLICATIONS

International Search Report and Written Opinion, International Application No. PCT/US2018/020637, published as WO2018160950, 15 pages, Jun. 22, 2018.

* cited by examiner

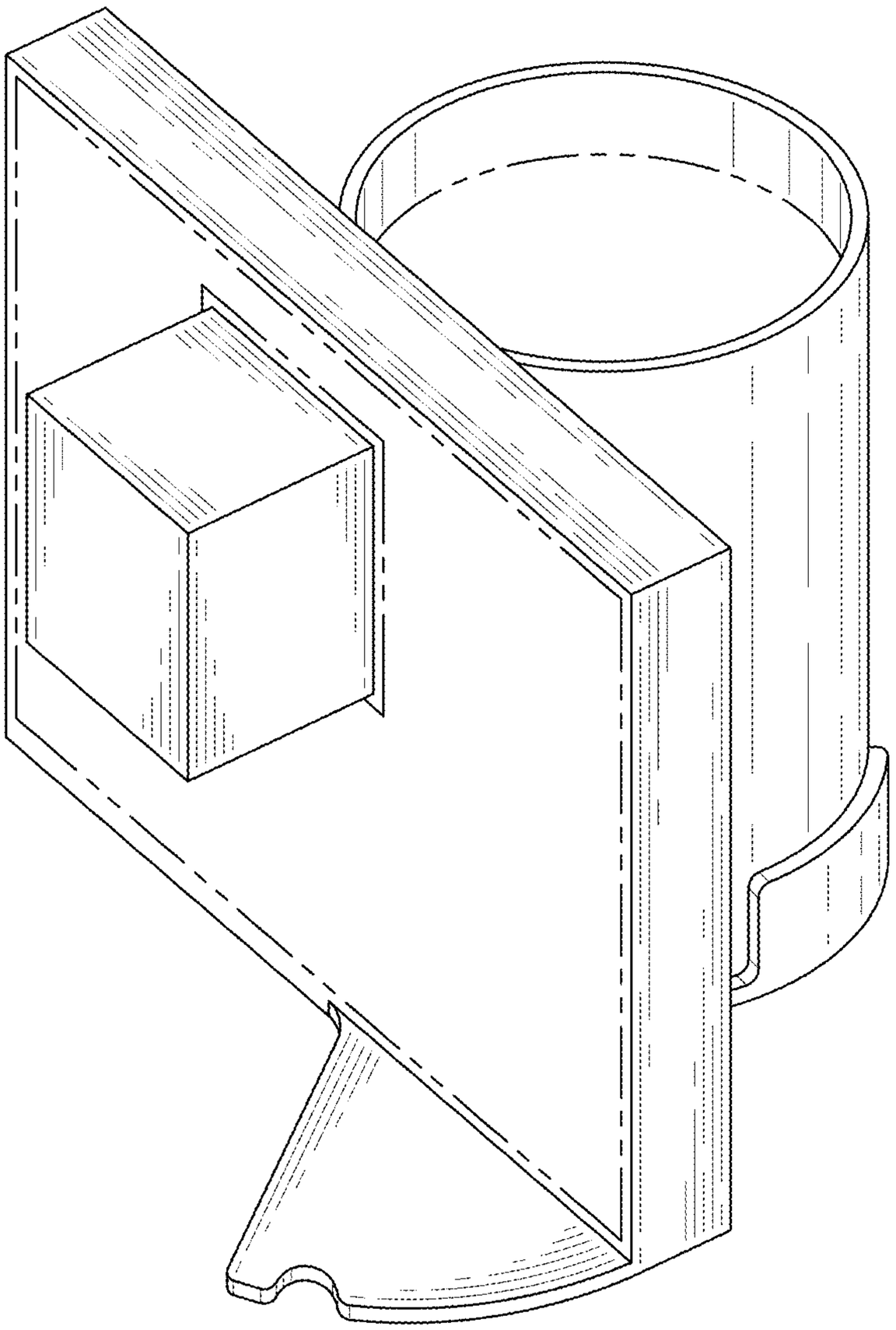


FIG. 1

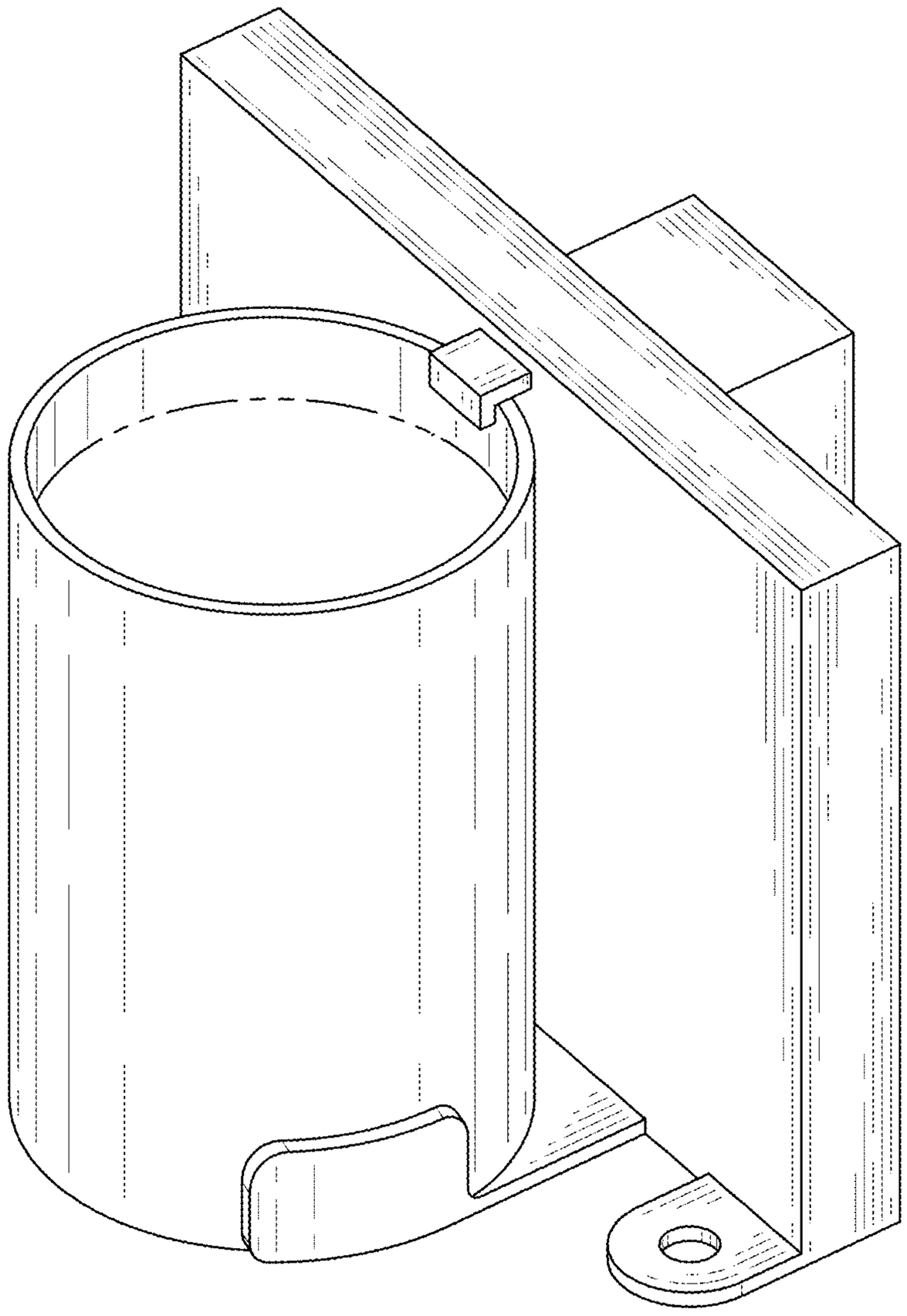


FIG. 2

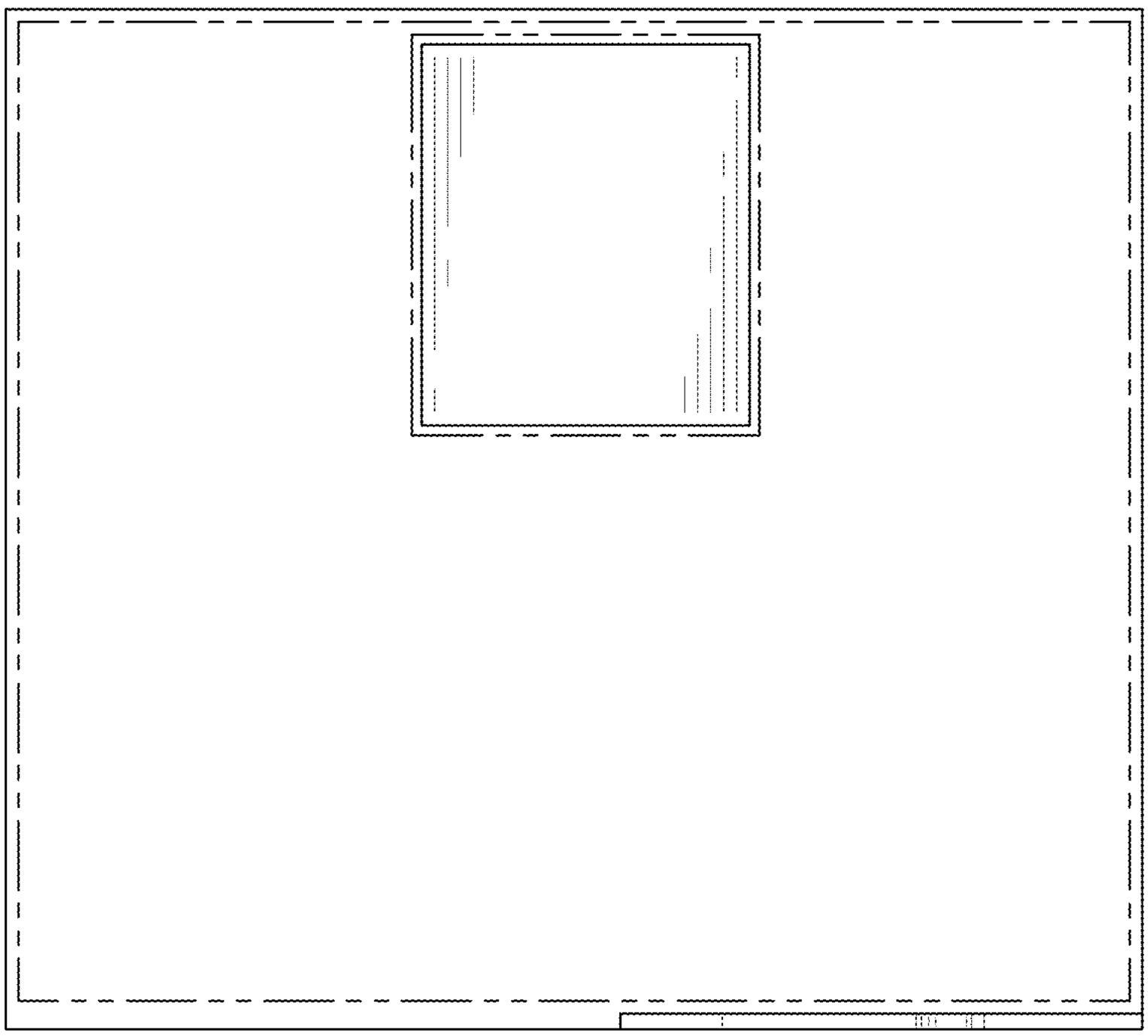


FIG. 3

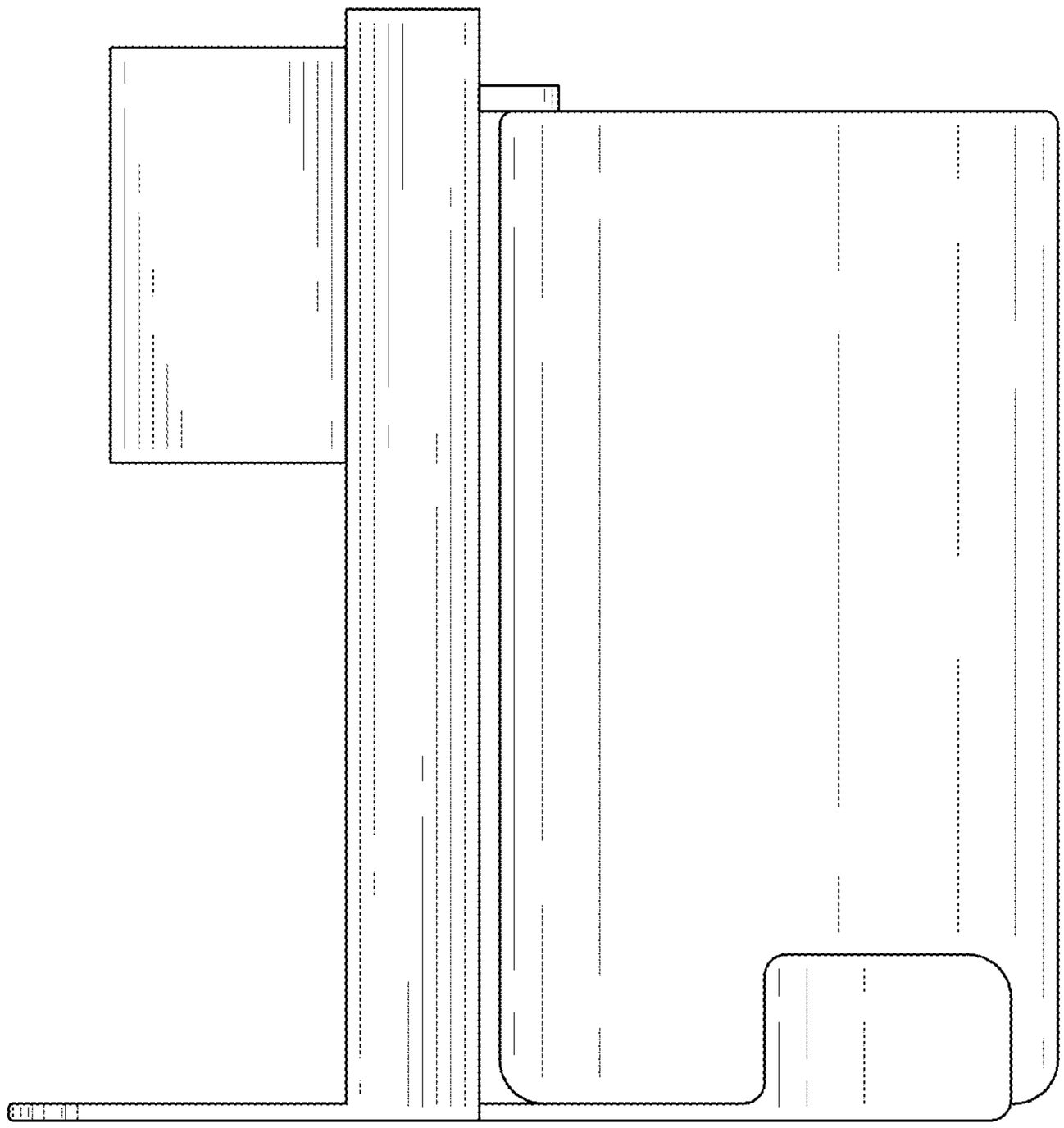


FIG. 4

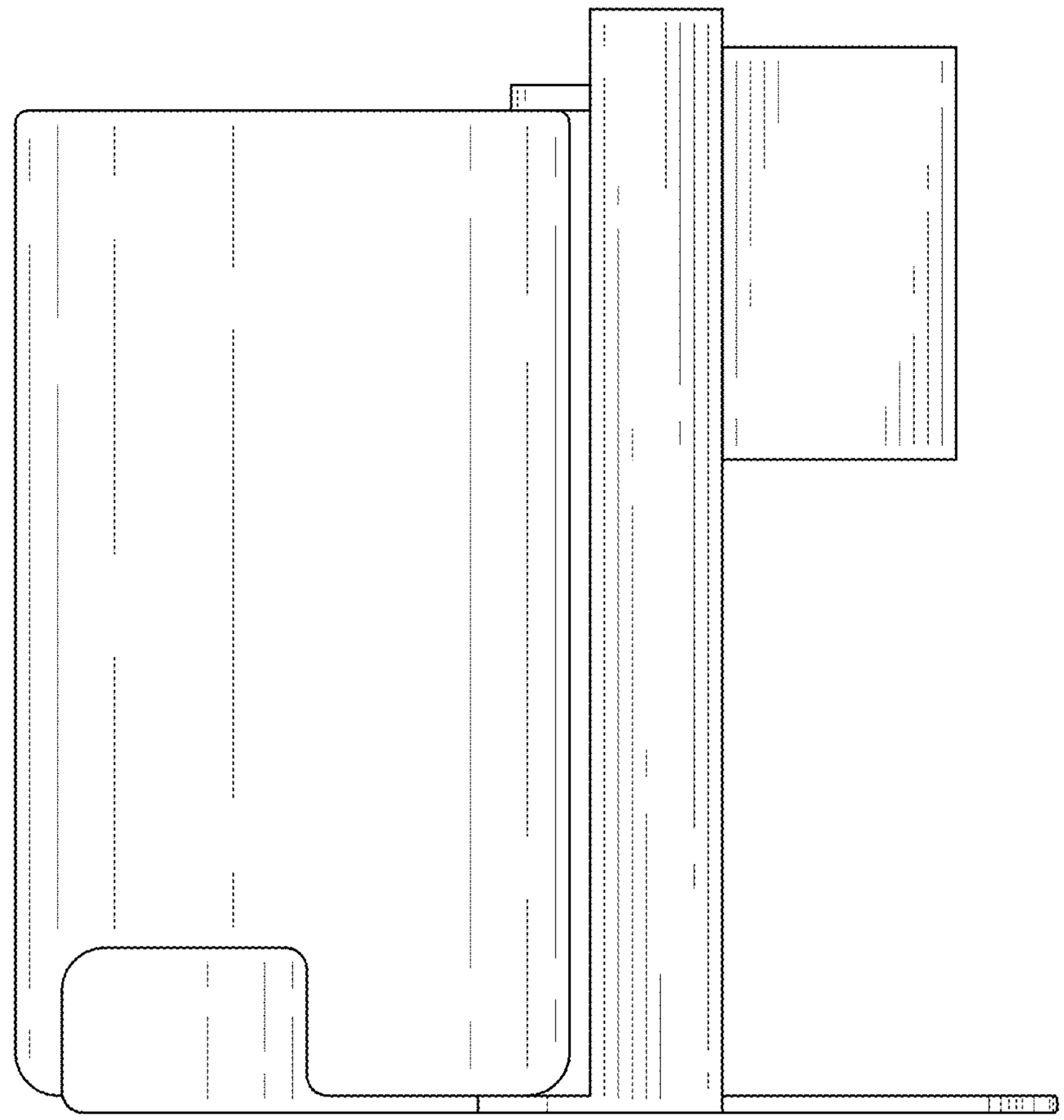


FIG. 5

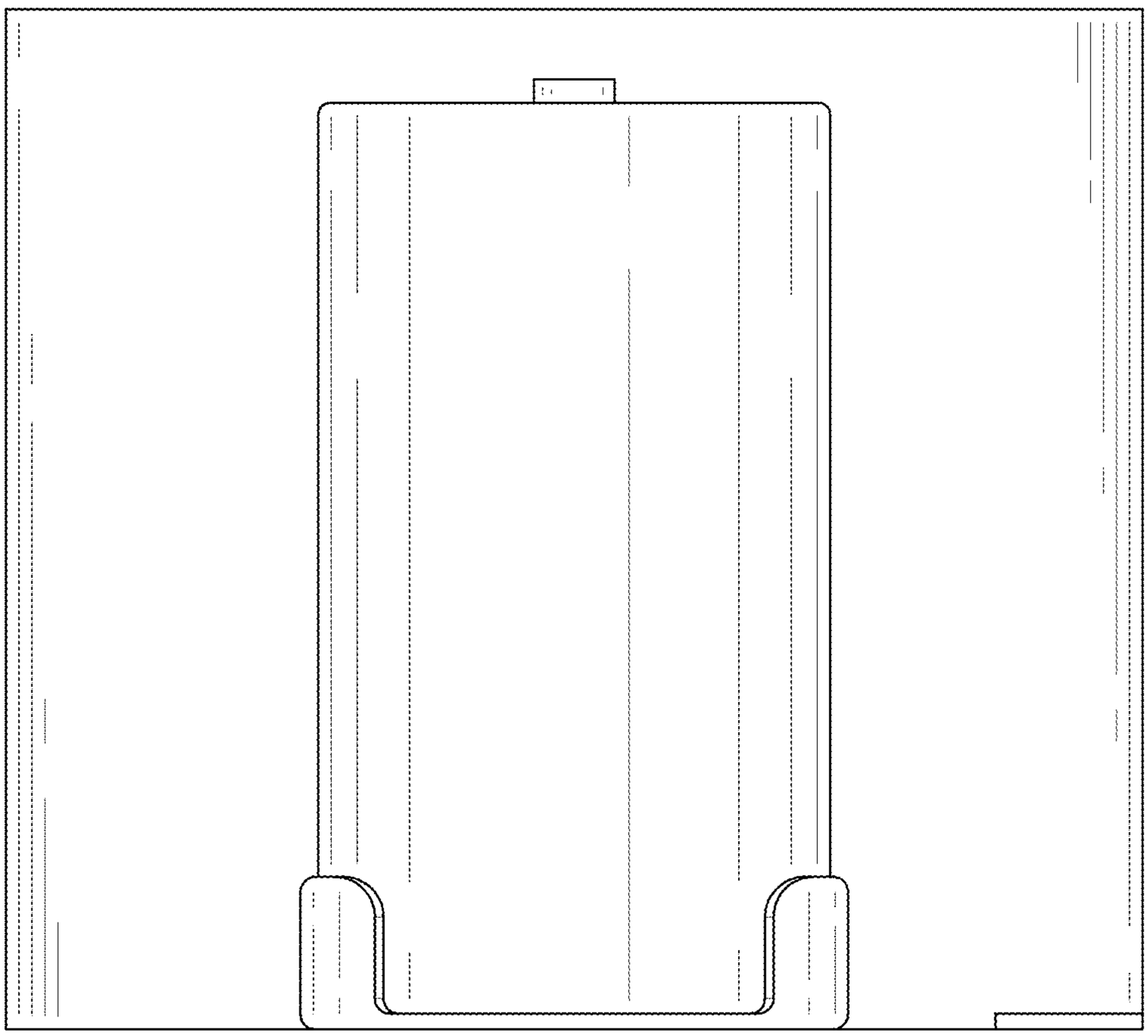


FIG. 6

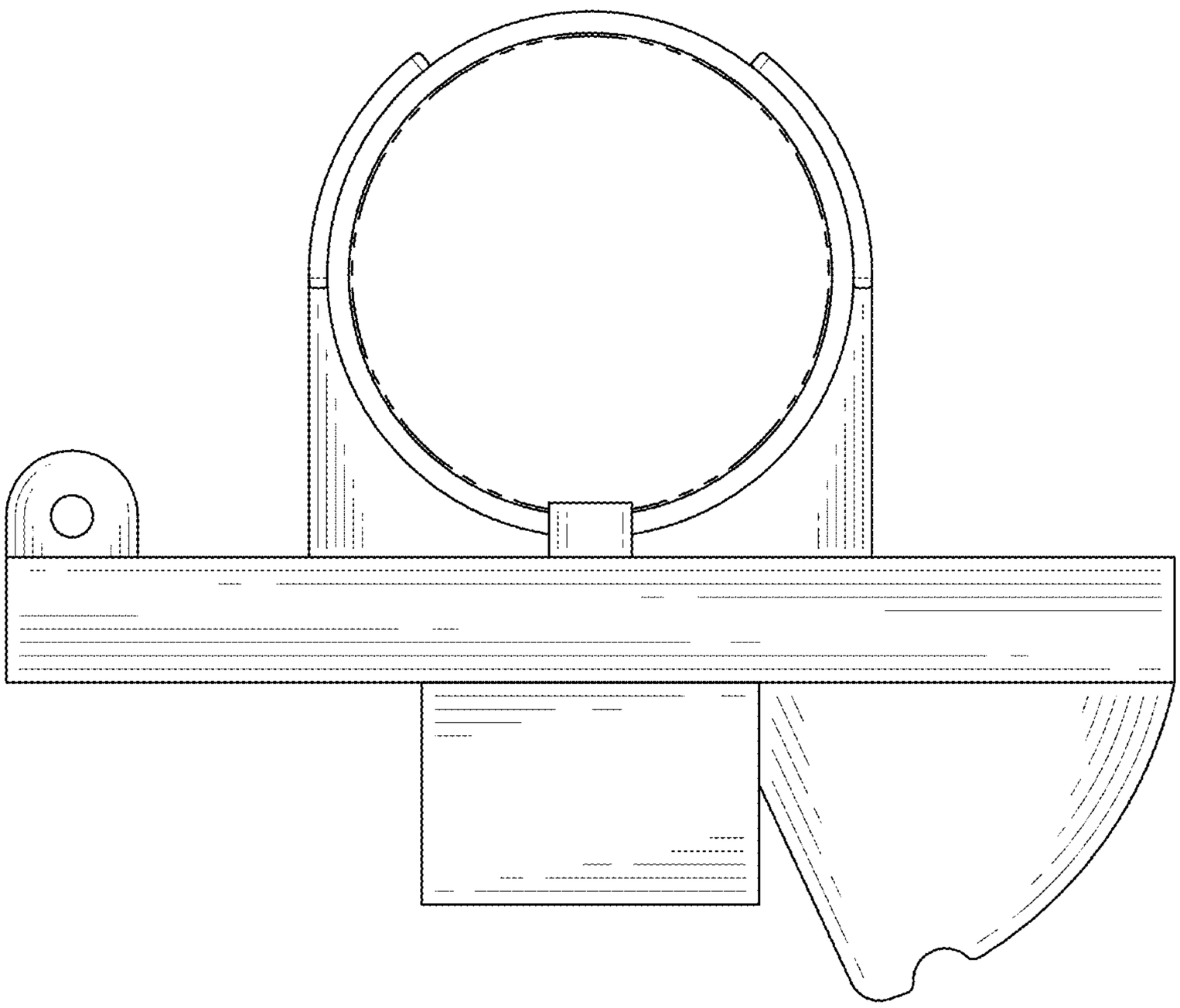


FIG. 7

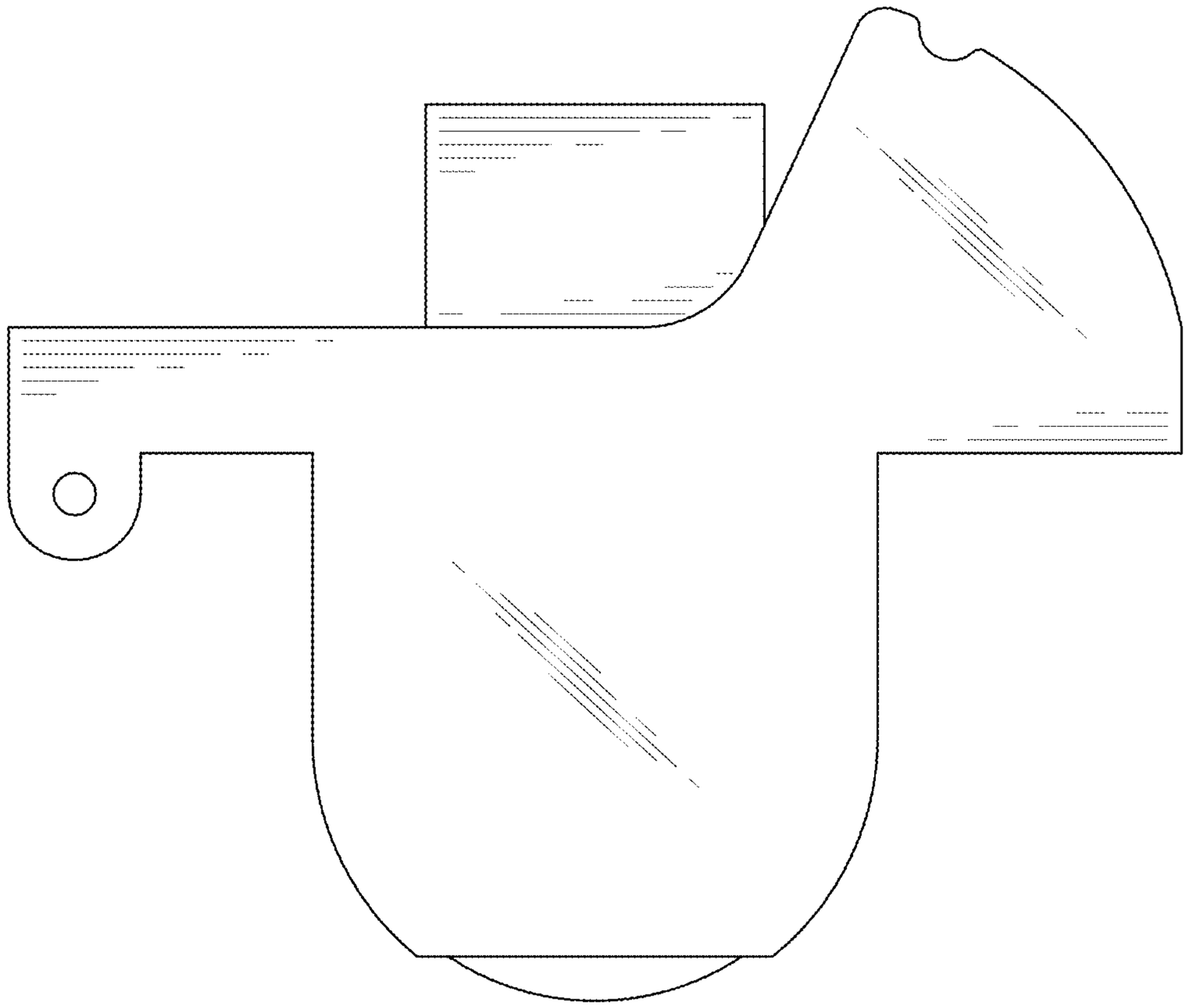


FIG. 8