

US00D635233S

(12) **United States Design Patent**
Nelson et al.

(10) **Patent No.:** **US D635,233 S**
(45) **Date of Patent:** **** Mar. 29, 2011**

(54) **FILTER CARTRIDGE**

(75) Inventors: **Benny Kevin Nelson**, Bloomington, MN (US); **John Kuhn**, Richfield, MN (US); **Donald Larson**, Brooklyn Park, MN (US); **David Nelson**, Savage, MN (US)

(73) Assignee: **Donaldson Company, Inc.**, Minneapolis, MN (US)

(**) Term: **14 Years**

(21) Appl. No.: **29/308,207**

(22) Filed: **Jun. 2, 2008**

(51) **LOC (9) Cl.** **23-04**

(52) **U.S. Cl.** **D23/365**

(58) **Field of Classification Search** D23/365,
D23/209, 363, 358, 386, 354, 341, 364; 55/385.3,
55/502, 497, 506, 505, 521, 495, 422, 493,
55/DIG. 30; 210/497.1; D32/31; D15/5
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

| | | | | |
|-----------------|---------|-------------------|-------|-----------|
| D326,706 S * | 6/1992 | Karlsson | ..... | D23/209 |
| 5,124,127 A * | 6/1992 | Jones et al. | ..... | 210/497.1 |
| D348,305 S * | 6/1994 | Bannigan | ..... | D23/209 |
| D366,516 S * | 1/1996 | Stewart | ..... | D23/209 |
| D380,535 S * | 7/1997 | Joergensen | ..... | D23/365 |
| D380,537 S * | 7/1997 | Ellwood | ..... | D23/365 |
| D440,294 S * | 4/2001 | Bilek | ..... | D23/365 |
| D455,826 S * | 4/2002 | Gillingham et al. | ..... | D23/365 |
| D457,596 S * | 5/2002 | Guzman et al. | ..... | D23/209 |
| D482,101 S * | 11/2003 | Rampen et al. | ..... | D23/209 |
| D533,916 S * | 12/2006 | Liao | ..... | D23/209 |
| D542,374 S * | 5/2007 | Green et al. | ..... | D23/209 |
| D548,306 S * | 8/2007 | Kennedy et al. | ..... | D23/209 |
| 2007/0235384 A1 | 10/2007 | Oku et al. | | |
| 2009/0223187 A1 | 9/2009 | Nelson et al. | | |

FOREIGN PATENT DOCUMENTS

WO WO 2007/044677 A1 4/2007

OTHER PUBLICATIONS

Search Report and Written Opinion corresponding to PCT/US2008/083416.

Exhibit A, Pending Claims corresponding to U.S. Appl. No. 12/291,893.

Exhibit B, Disclosure and drawings corresponding to U.S. Appl. No. 61/003,215, filed Nov. 15, 2007.

Exhibit C, Disclosure and drawings corresponding to U.S. Appl. No. 61/130,790, filed Jun. 2, 2008.

* cited by examiner

Primary Examiner — David G Muller

(74) *Attorney, Agent, or Firm* — Merchant & Gould P.C.

(57) **CLAIM**

The ornamental design for filter cartridge, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view according to the present design; in FIG. 1 the perspective view being shown generally toward the inlet end and the closed end.

FIG. 2 is an end elevational view of the filter cartridge of FIG. 1.

FIG. 3 is a second end elevational view, opposite the view of FIG. 2.

FIG. 4 is a first side elevational view of the cartridge of FIG. 1, the view of FIG. 4 generally being toward the side viewable in FIG. 1.

FIG. 5 is second side elevational view taken generally opposite side to the viewable in FIG. 4.

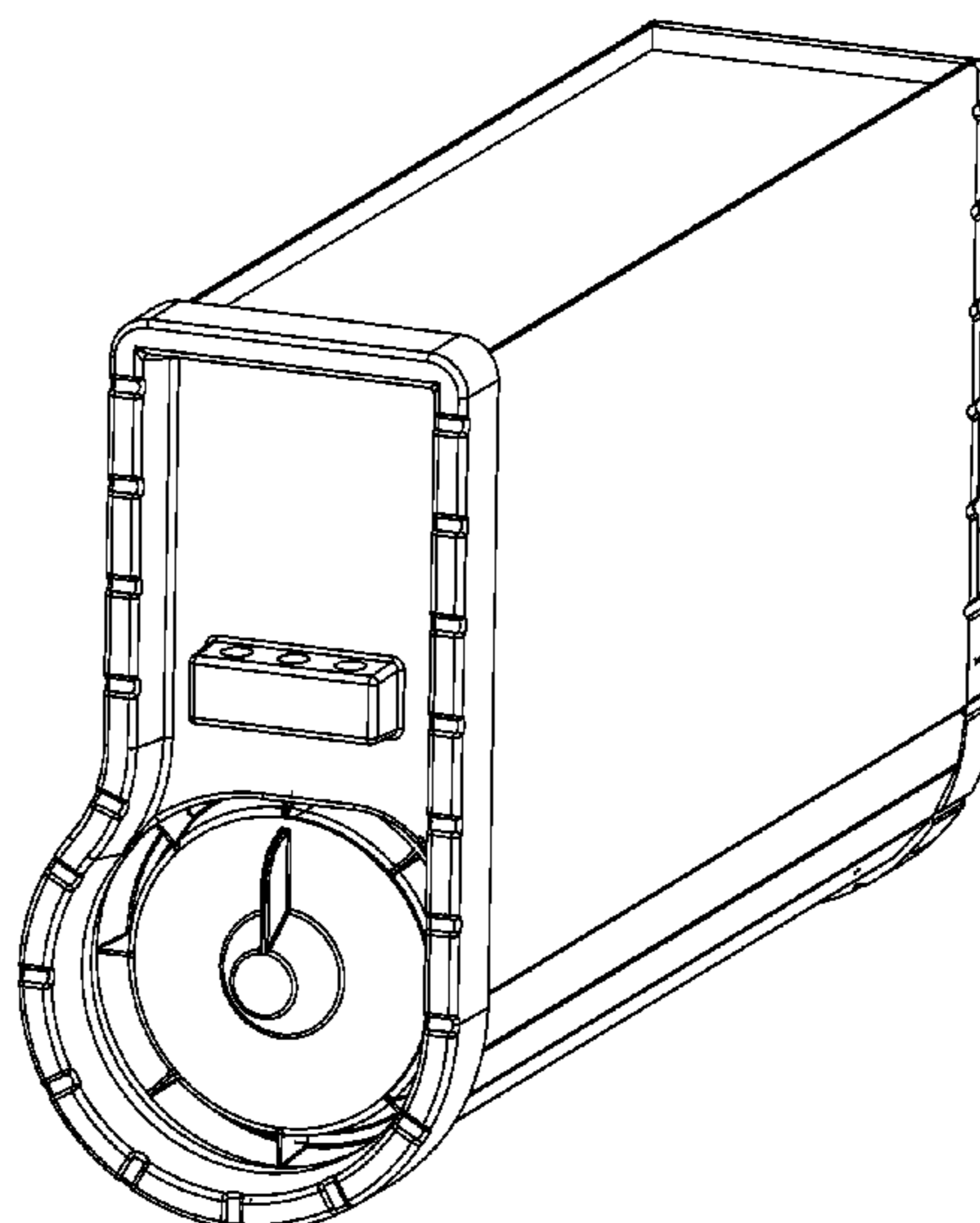
FIG. 6 is a top inlet end plan view of the cartridge of FIG. 1

FIG. 7 is a bottom end view of the cartridge of FIG. 1; taken generally opposite the view of FIG. 6; and,

FIG. 8 is an outlet end perspective view of the filter cartridge of FIG. 1.

The broken line showing of parts of the drawings is included for the purpose of illustrating use and environment and forms no part of the claimed design.

1 Claim, 7 Drawing Sheets



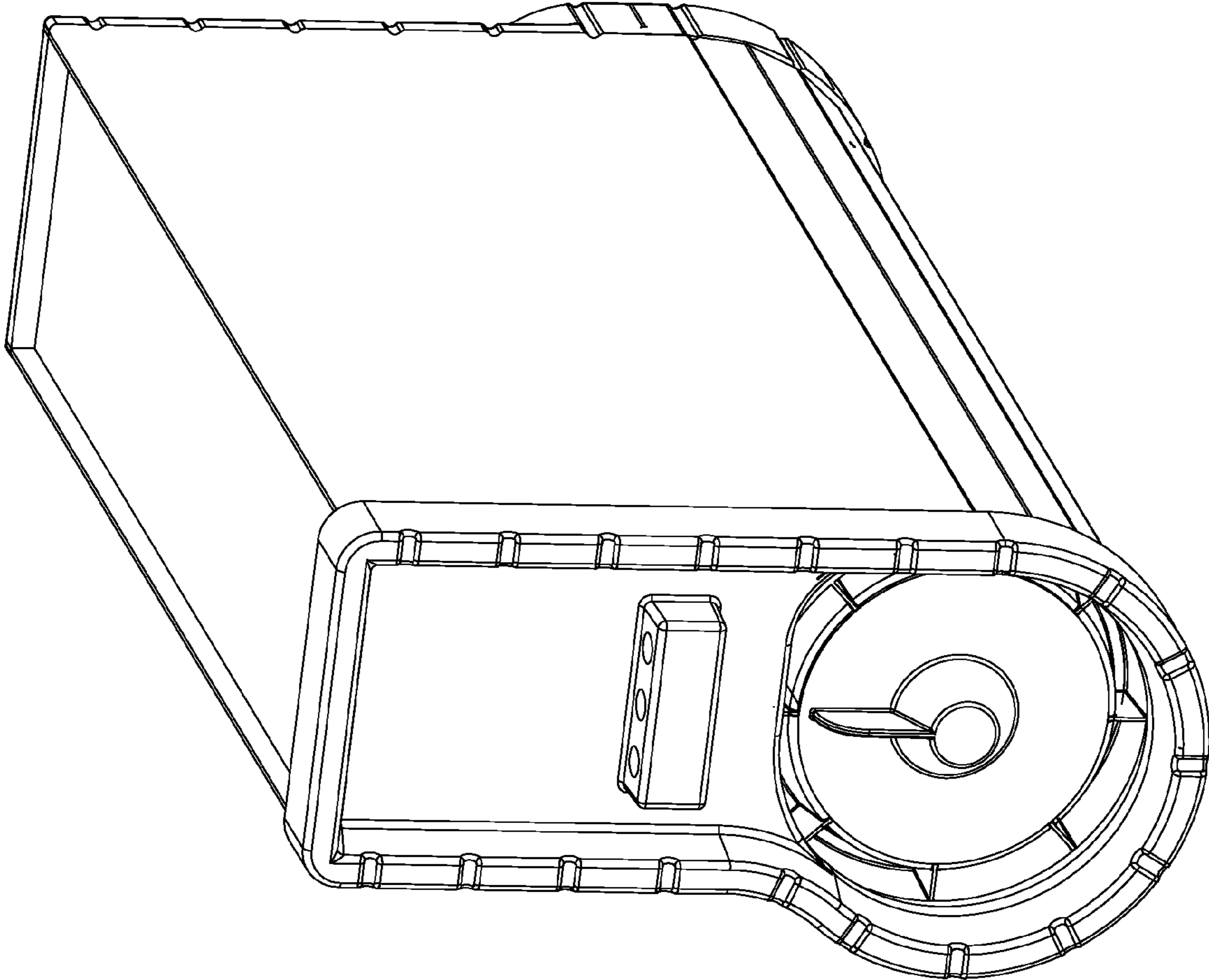


FIG. 1

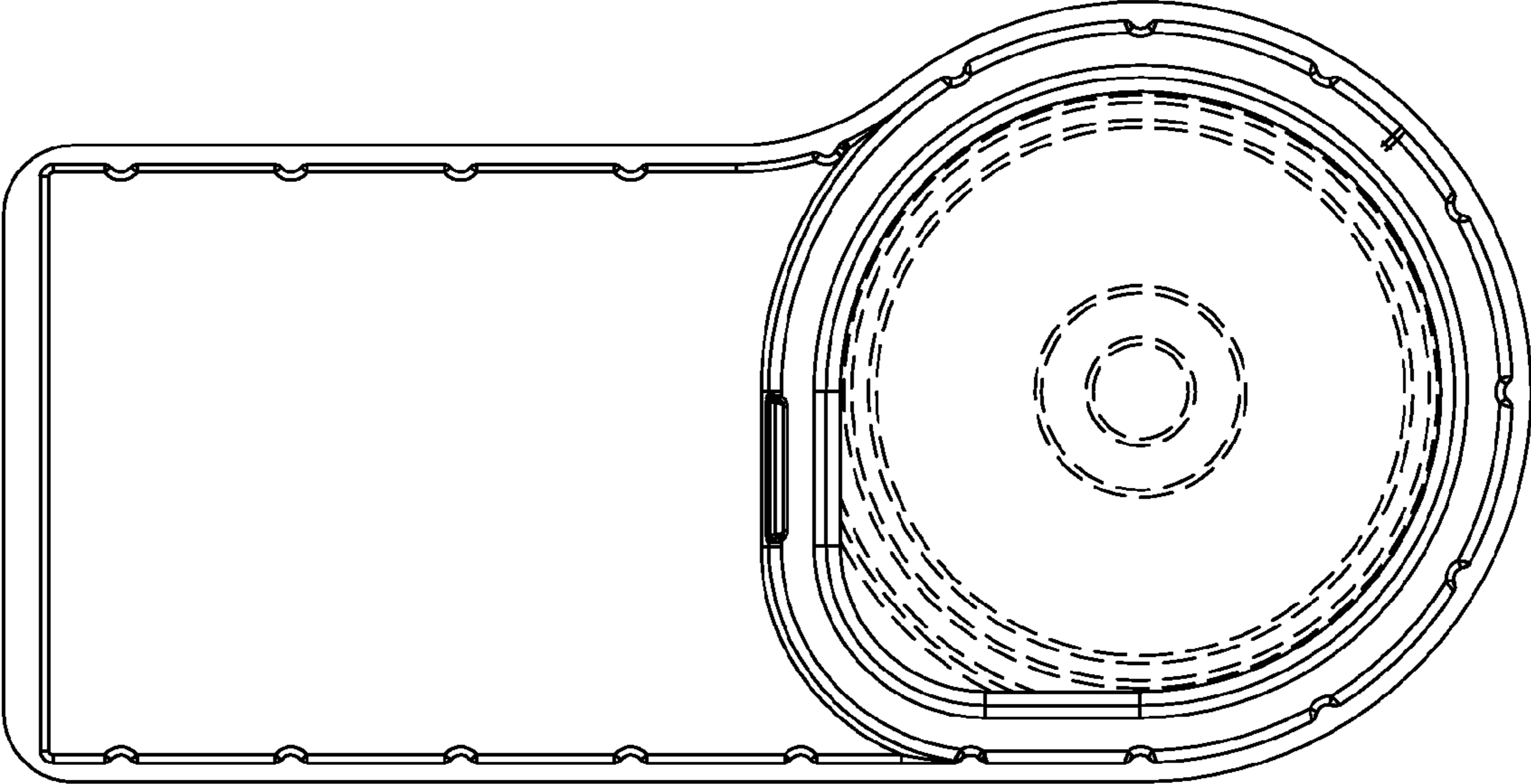


FIG. 3

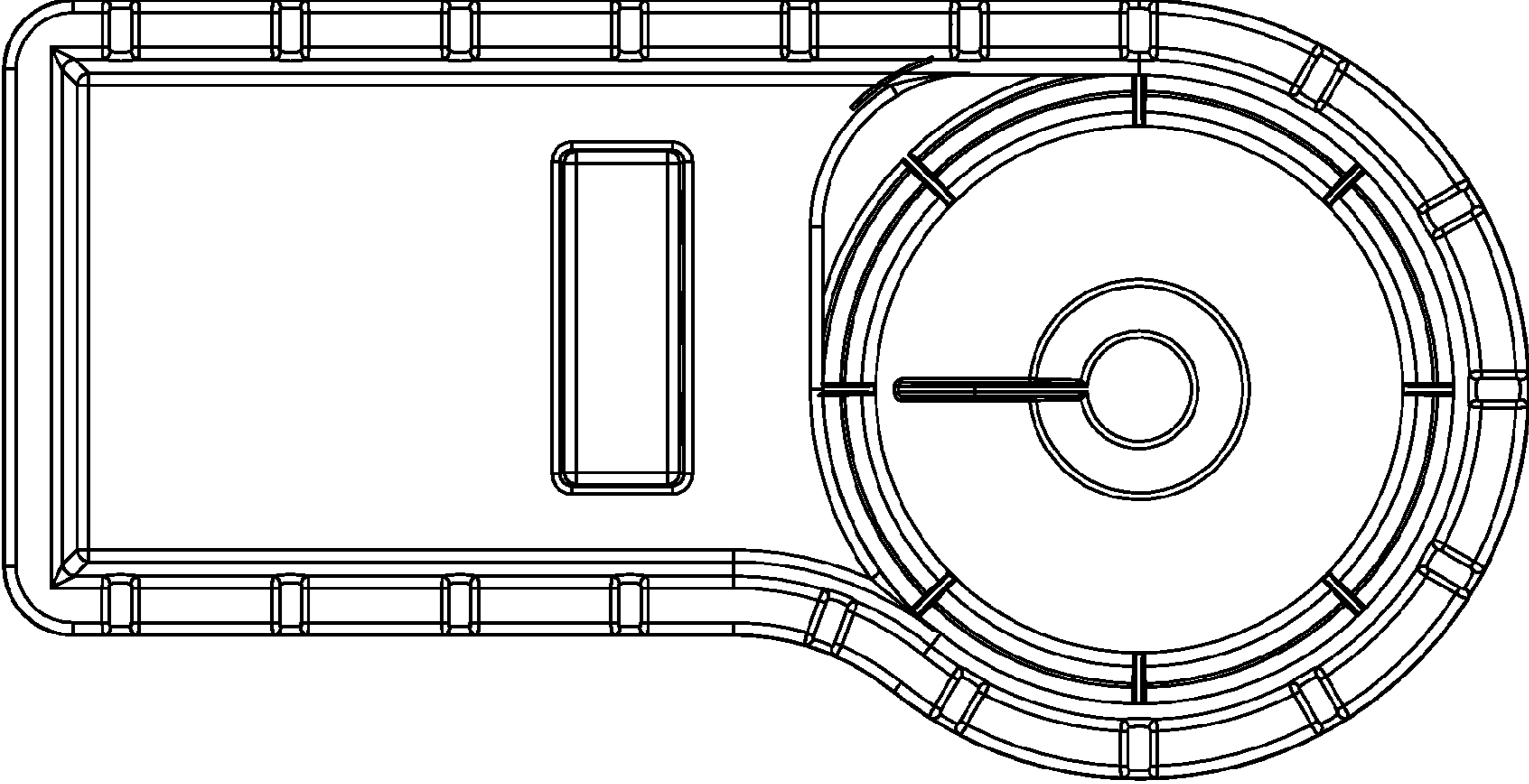
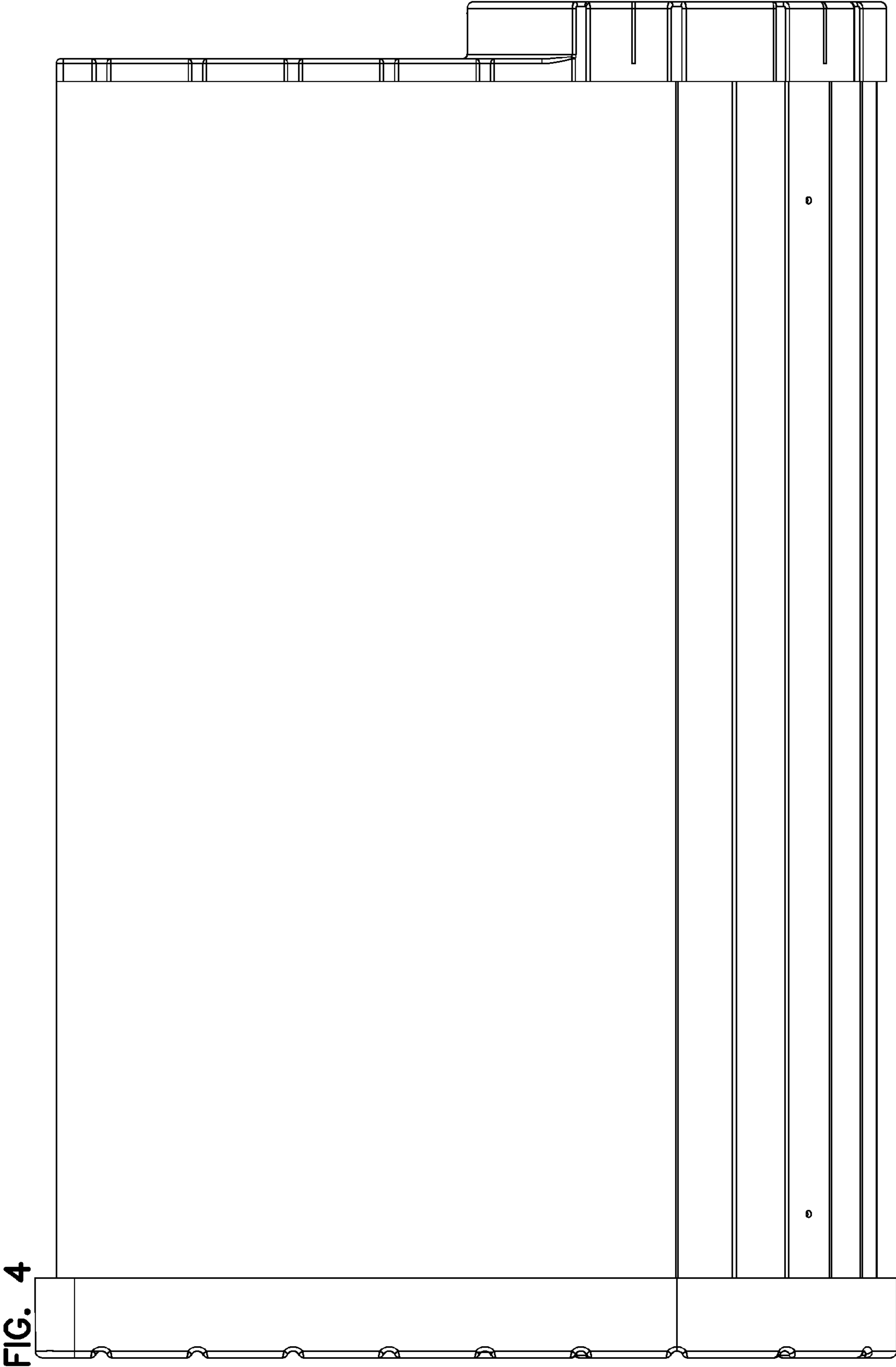


FIG. 2



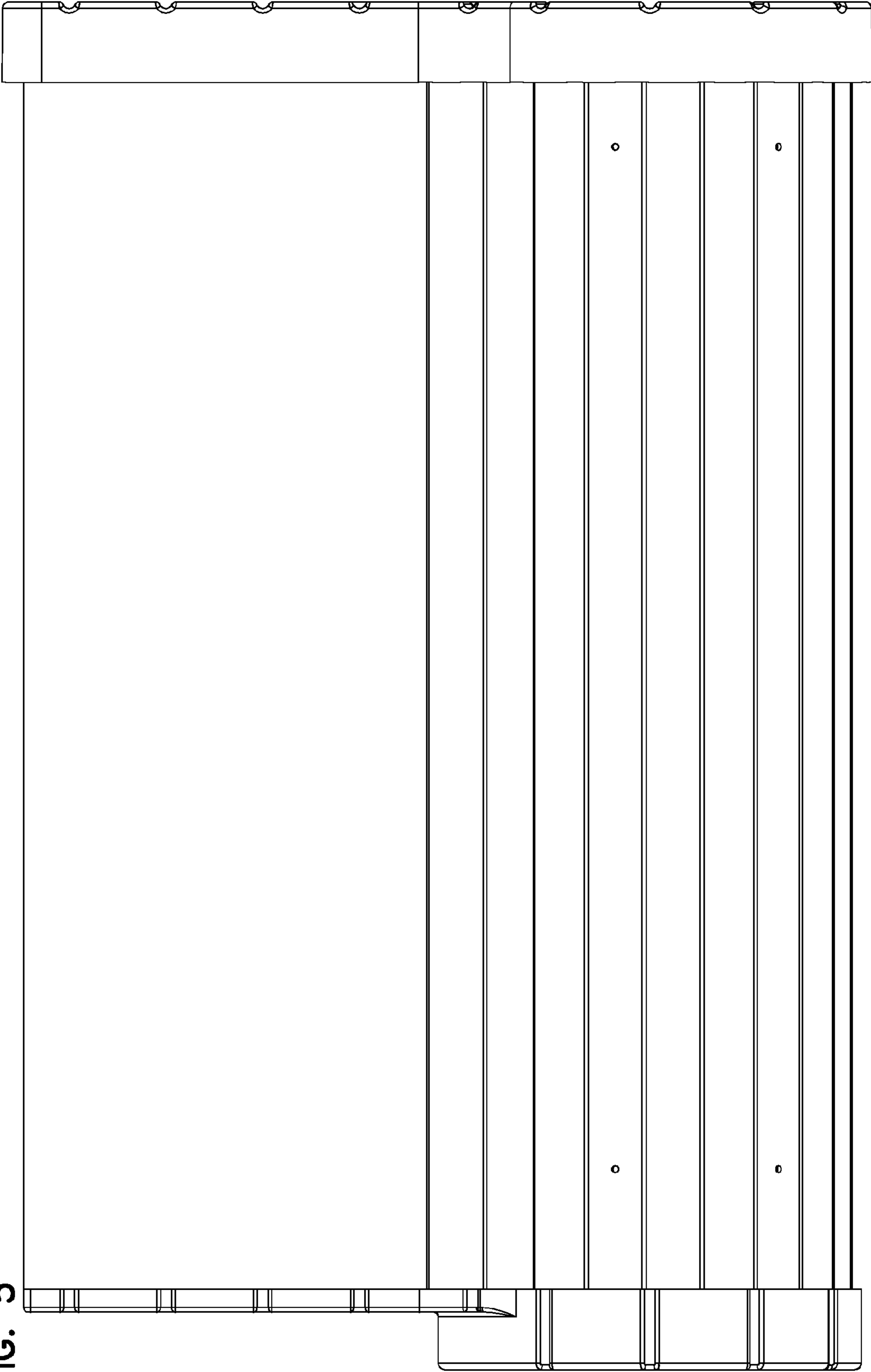


FIG. 5

FIG. 6

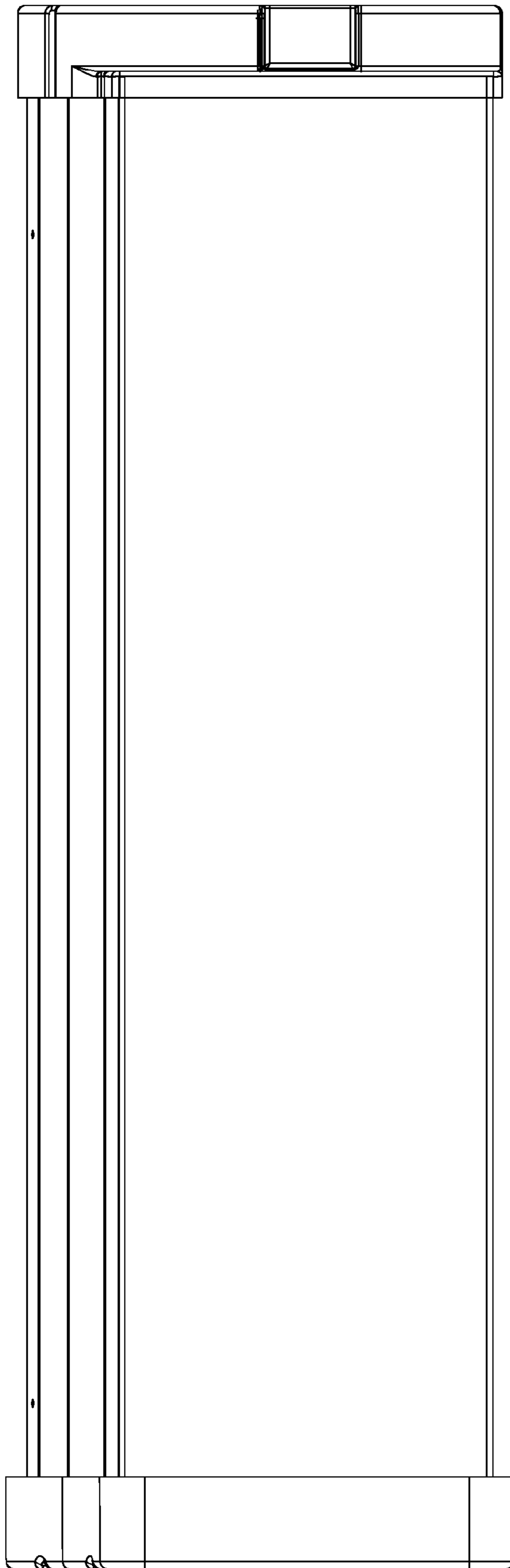
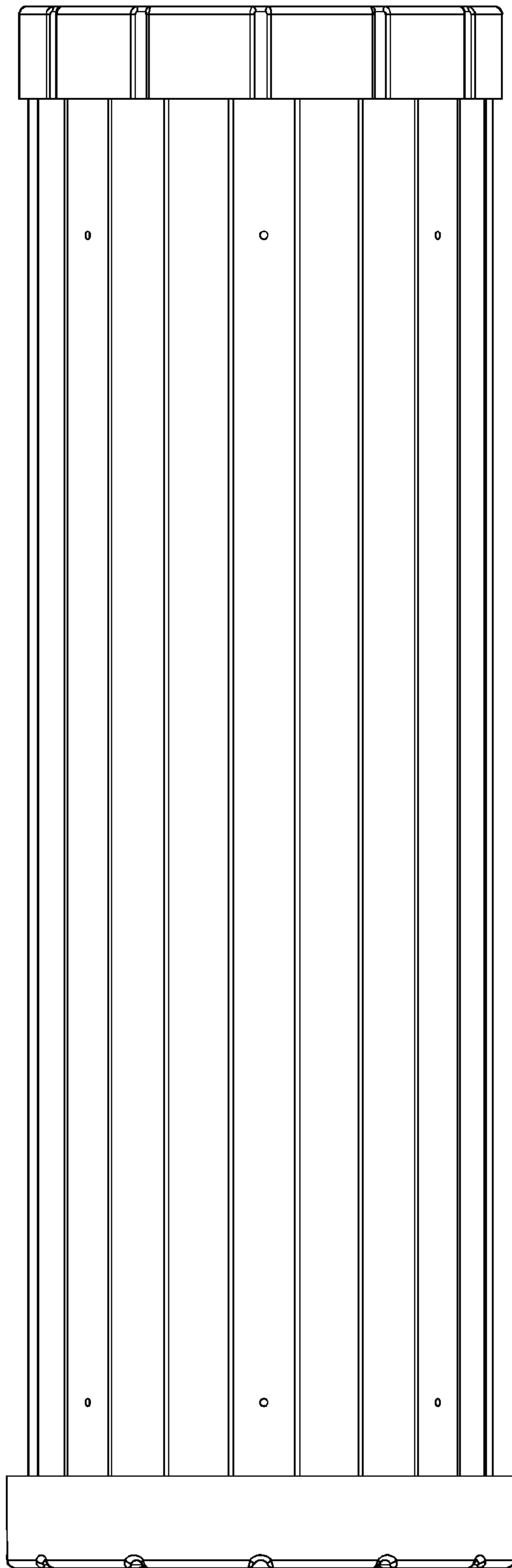


FIG. 7



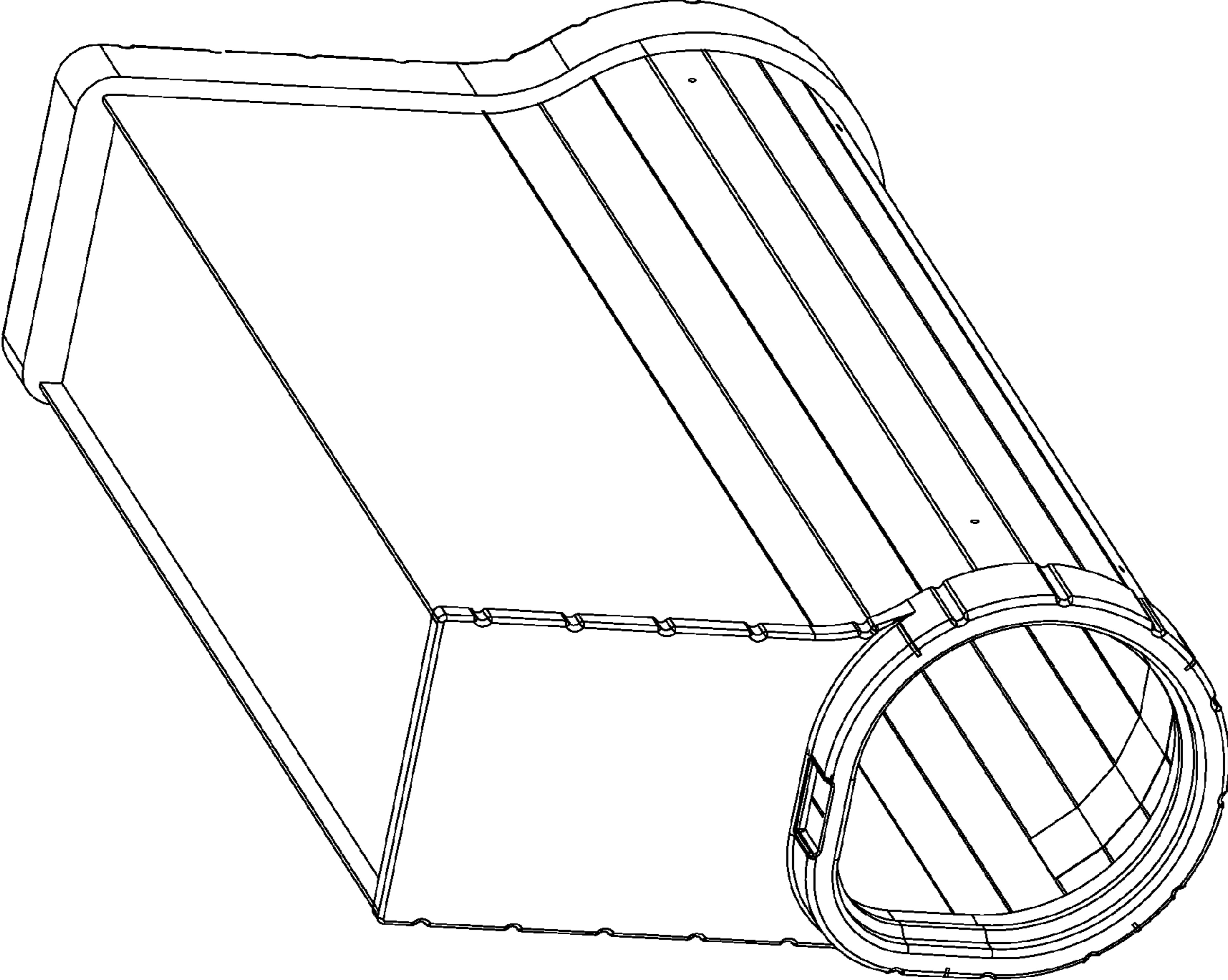


FIG. 8