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(12) **United States Design Patent** (10) **Patent No.:** **US D856,826 S**
Erbacher et al. (45) **Date of Patent:** **** Aug. 20, 2019**

(54) **HYDRONIC ZONE CONTROLLER**

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

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(51) **LOC (12) Cl.** **10-04**

(52) **U.S. Cl.**

USPC **D10/49**; D13/162

(58) **Field of Classification Search**

USPC D10/49, 50; D13/162, 162.1, 177
 CPC . F23N 5/20; F23N 5/203; F23N 5/206; F23N 5/18; F23N 5/184; F23N 5/187; F23N 5/22; F23N 2025/12; F23N 2041/02; F24F 11/00; F24F 11/0012; F24F 11/0009; F24F 11/001; F24F 2011/0057; F24F 2011/0073; F24F 2011/0091; F24F 2011/0094; F24F 2011/0068; F24F 2011/0012; F24F 2011/0015; F24F 2011/0017; F21V 11/16; F21V 33/10; G05B 19/042; G05D 23/01; G05D 23/12; G05D 23/275; G05D 23/1902; G05D 23/1904; G05D 23/27502; G05D 23/27503; G05D 23/1919; G05D 23/19; G05D 23/2723; G05D 23/00; G09F 13/22; G09F 9/53; G06F 1/1684; G06F 1/30; G06F 3/0362; G06F 3/038; H05B 33/0854; H05B 37/0218; H05K 5/0017; H05K 5/0243; H05K 5/00; H05K 5/03; H04M 2250/12; H04M 2250/22

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D290,694 S 7/1987 Shimizu et al.
 D304,929 S 12/1989 Bench et al.
 D312,612 S 12/1990 Seymour
 D401,909 S 12/1998 Richman et al.
 D558,684 S 1/2008 Dornauer et al.

(Continued)

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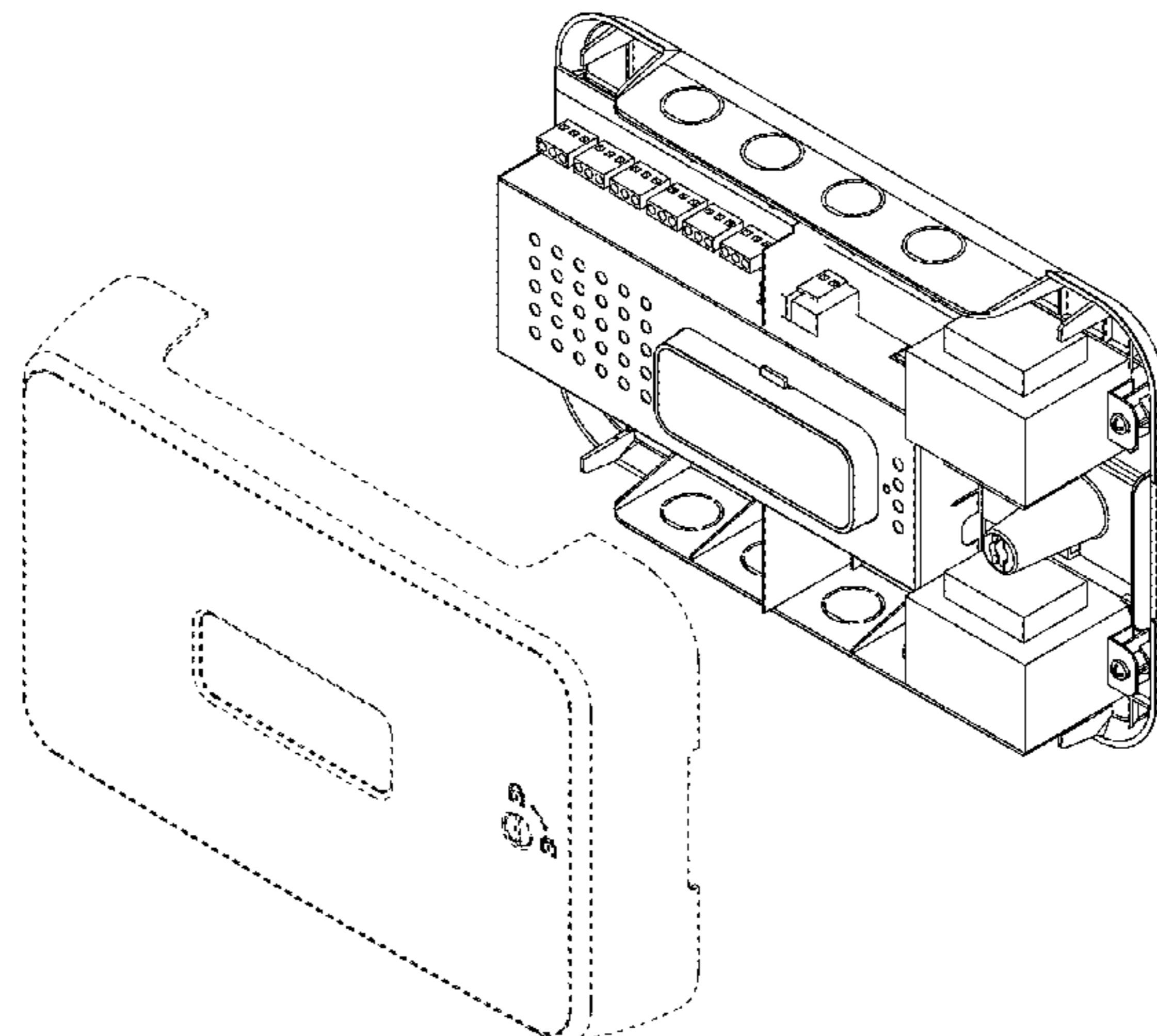
(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a perspective view of a hydronic zone controller with a cover removed and shown in broken lines;
 FIG. 2 is a front elevation view of the hydronic zone controller of FIG. 1;
 FIG. 3 is a front elevation view of the hydronic zone controller of FIG. 1 with user interface elements added on the centrally located user interface;
 FIGS. 4-7 are left, right, top and bottom views, respectively, of the hydronic zone controller of FIG. 1;
 FIG. 8 is a perspective view of another hydronic zone controller with a cover removed and shown in broken lines;
 FIG. 9 is a front elevation view of the hydronic zone controller of FIG. 8;
 FIG. 10 is a front elevation view of the hydronic zone controller of FIG. 8 with user interface elements added on the centrally located user interface; and,
 FIGS. 11-14 are left, right, top and bottom views, respectively, of the hydronic zone controller of FIG. 8.
 The portions illustrated in broken lines on the figures are for illustrative purposes only and form no part of the claimed design.

1 Claim, 14 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D562,261 S 2/2008 Takach et al.
D562,262 S 2/2008 Takach et al.
D563,325 S 3/2008 Takach et al.
D570,791 S 6/2008 Takach et al.
D571,734 S 6/2008 Takach et al.
D602,445 S 10/2009 Liu
D678,218 S * 3/2013 Sheen D13/168
D680,501 S 4/2013 Elliott et al.
D693,311 S 11/2013 Biller et al.
D727,857 S 4/2015 Acera et al.
D733,591 S * 7/2015 Golden D10/50
D769,743 S 10/2016 Li
D772,085 S 11/2016 Howe et al.
D792,353 S 7/2017 Yoshida et al.
D792,789 S * 7/2017 Read D10/50
D804,432 S 12/2017 Burkell et al.
10,096,996 B1 * 10/2018 Lin H02J 1/00

* cited by examiner

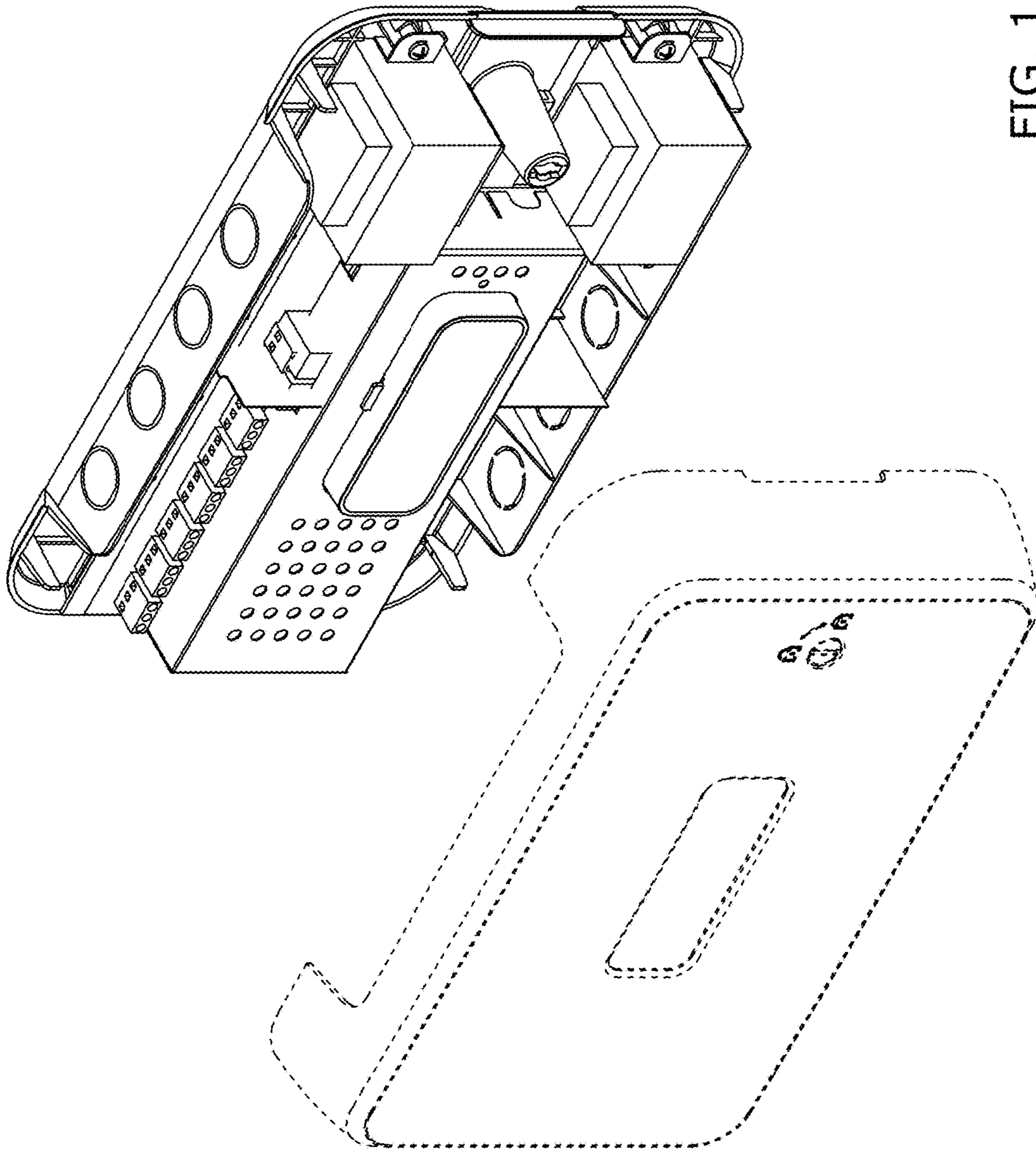


FIG. 1

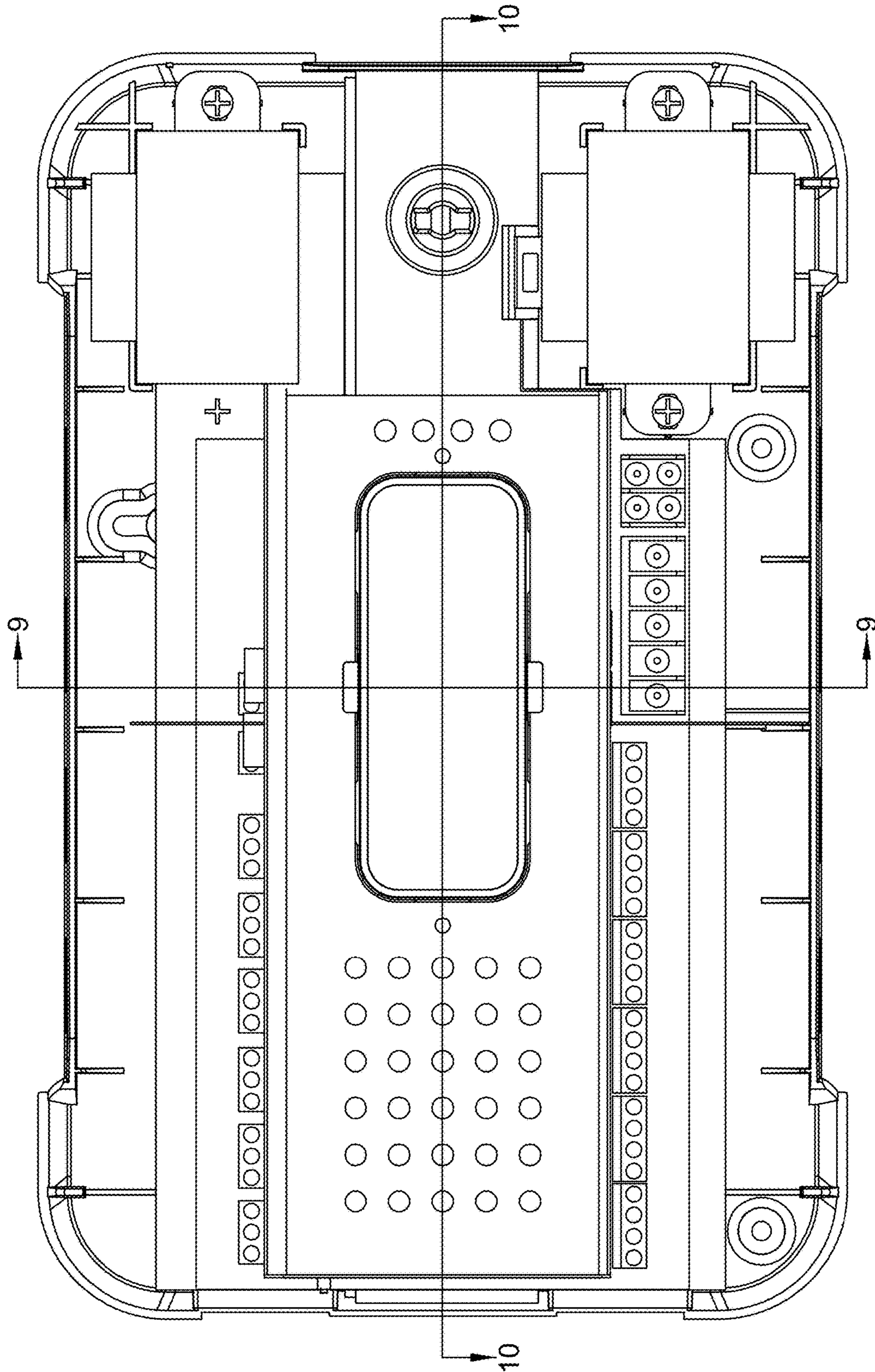


FIG. 2

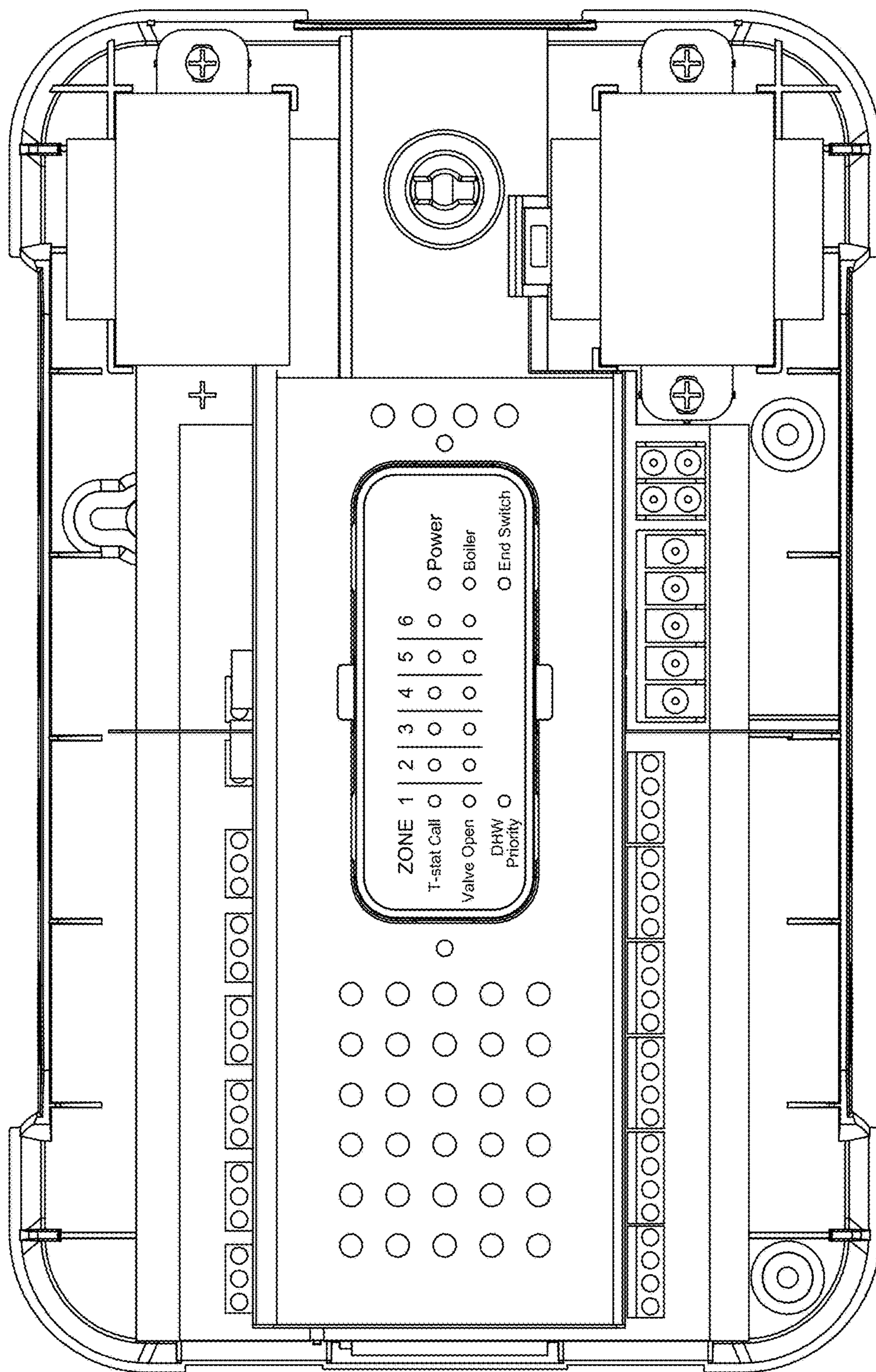


FIG. 3

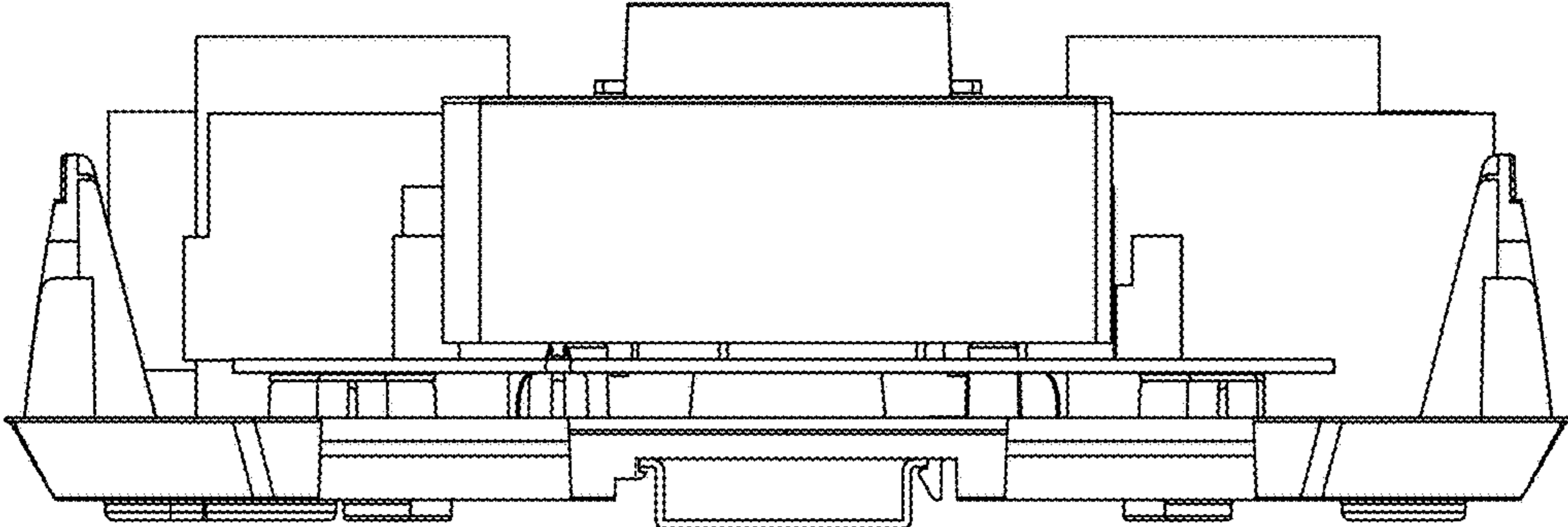


FIG. 4

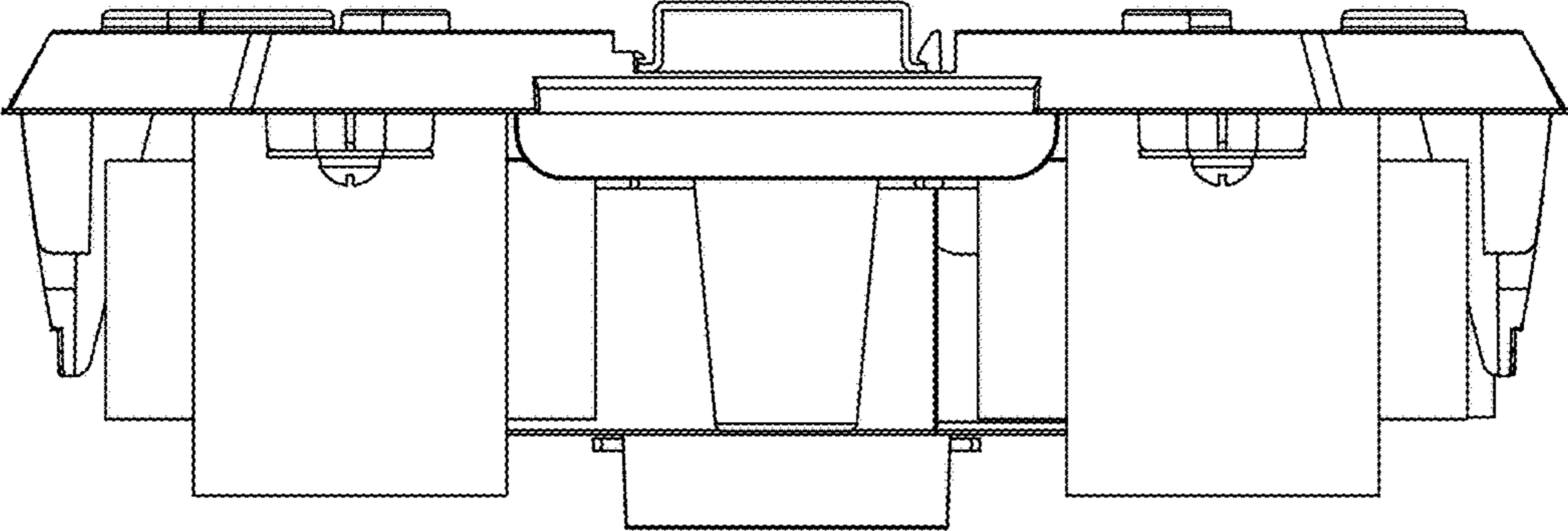


FIG. 5

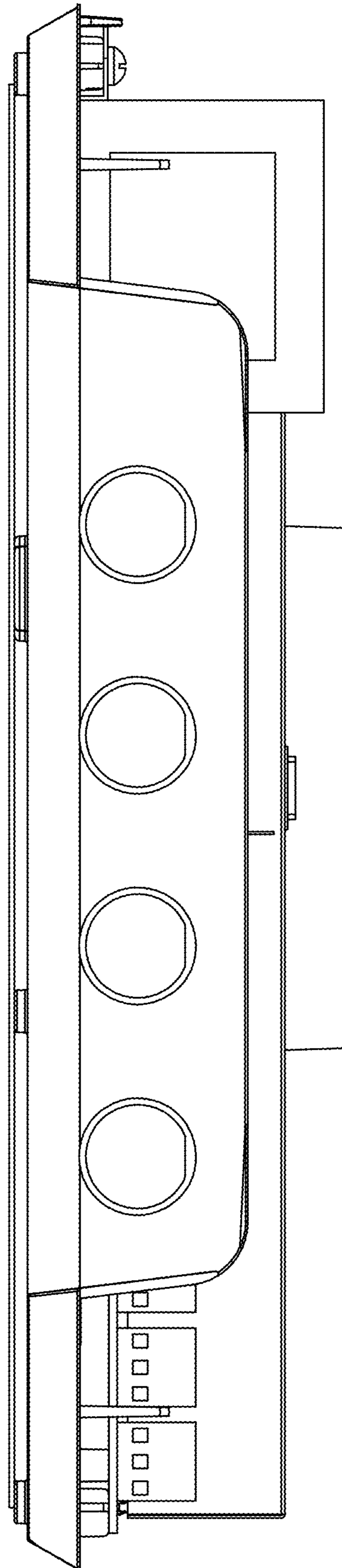


FIG. 6

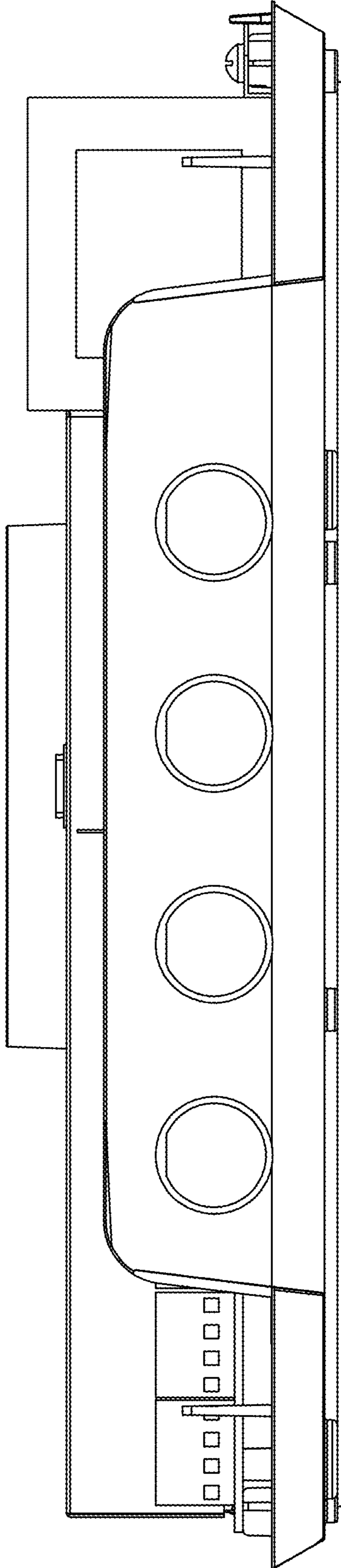


FIG. 7

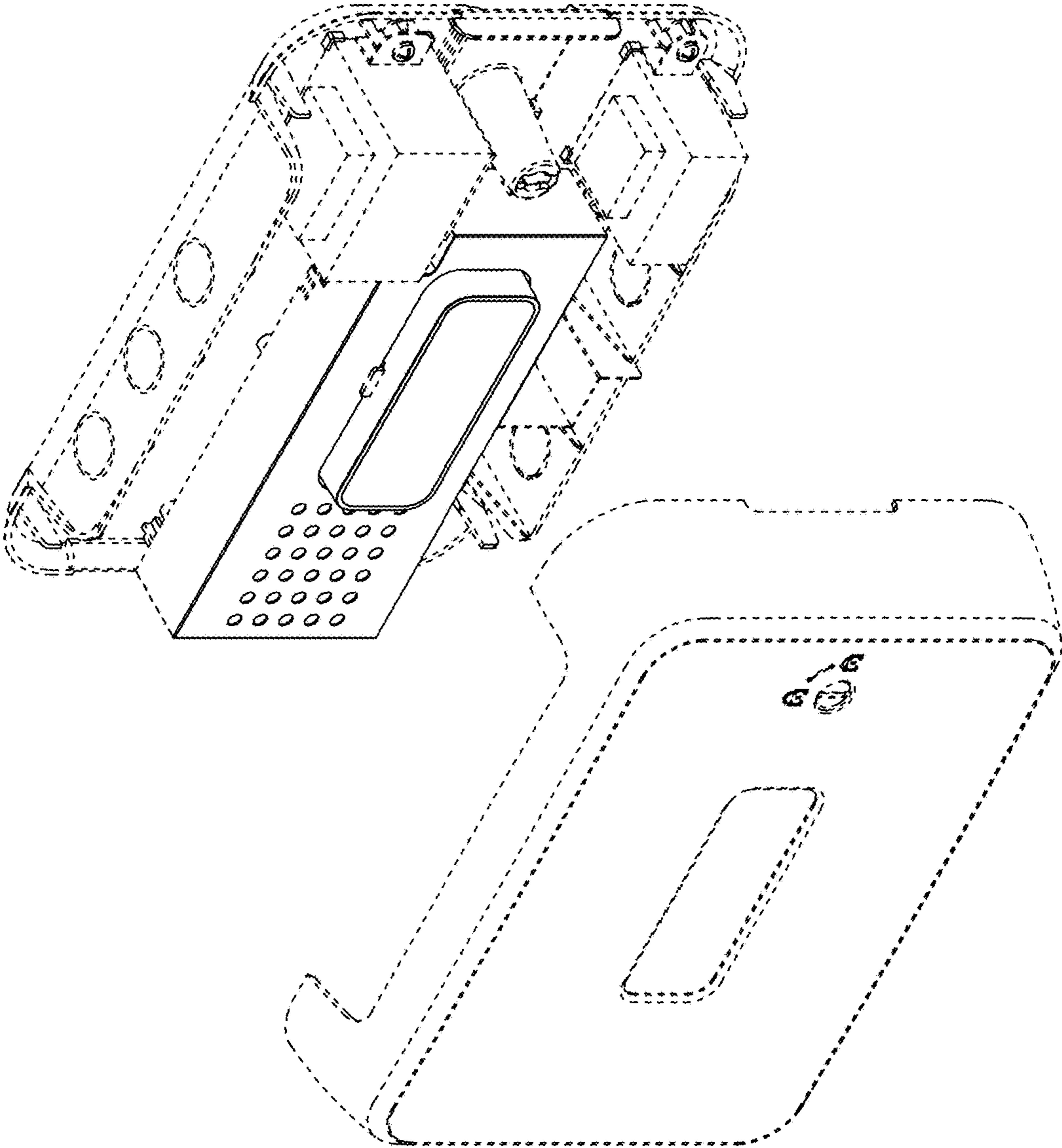


FIG. 8

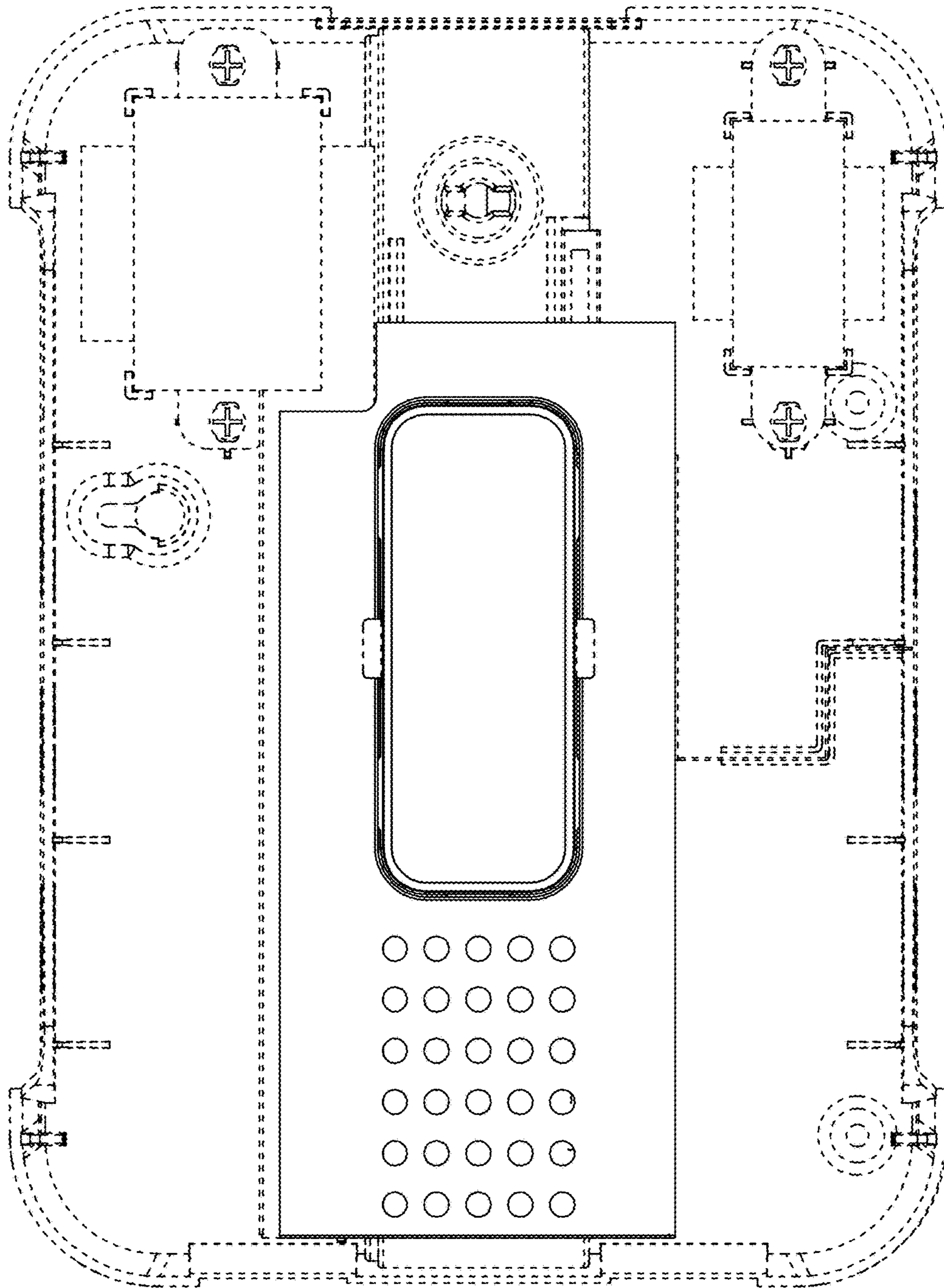


FIG. 9

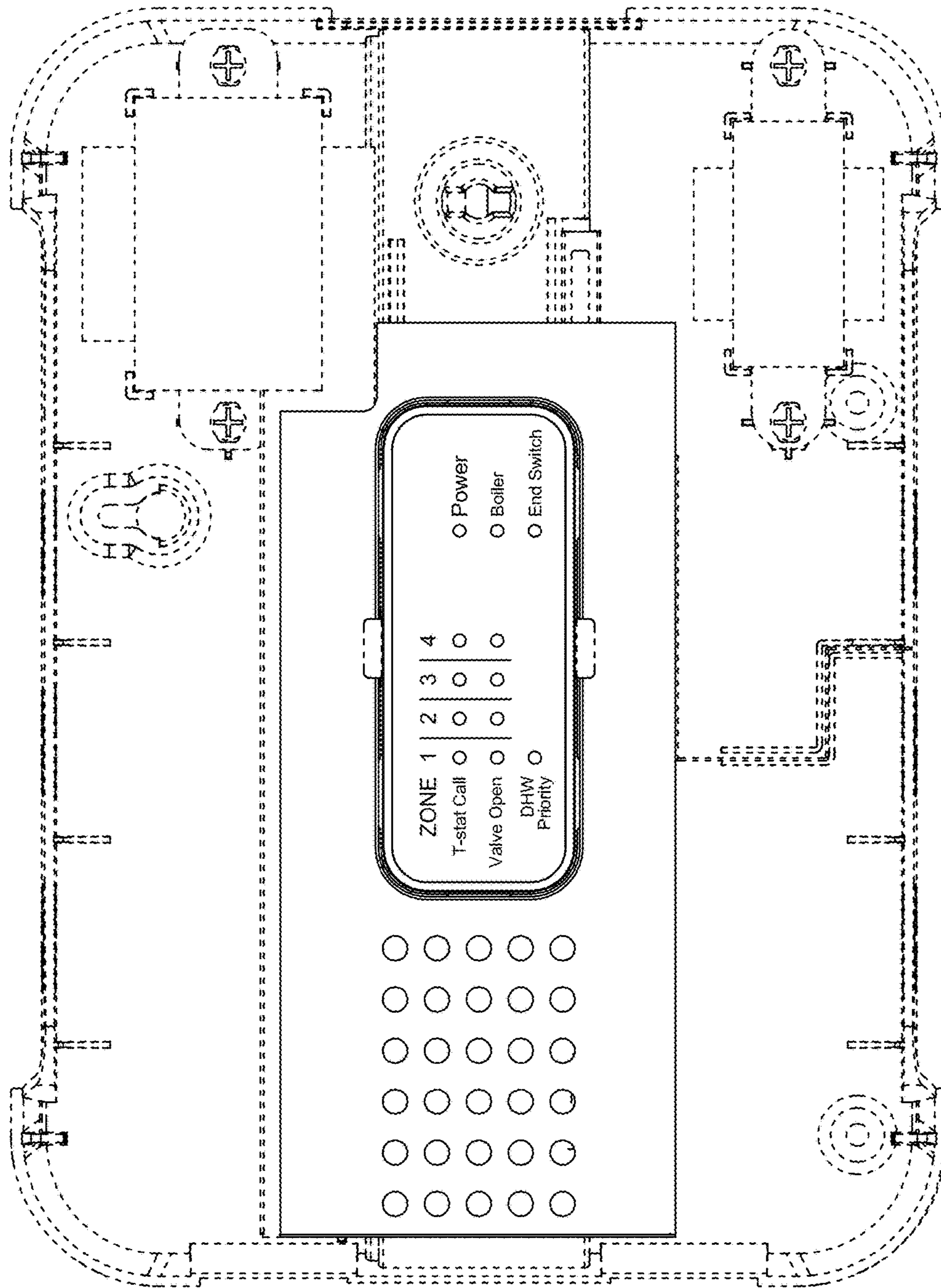


FIG. 10

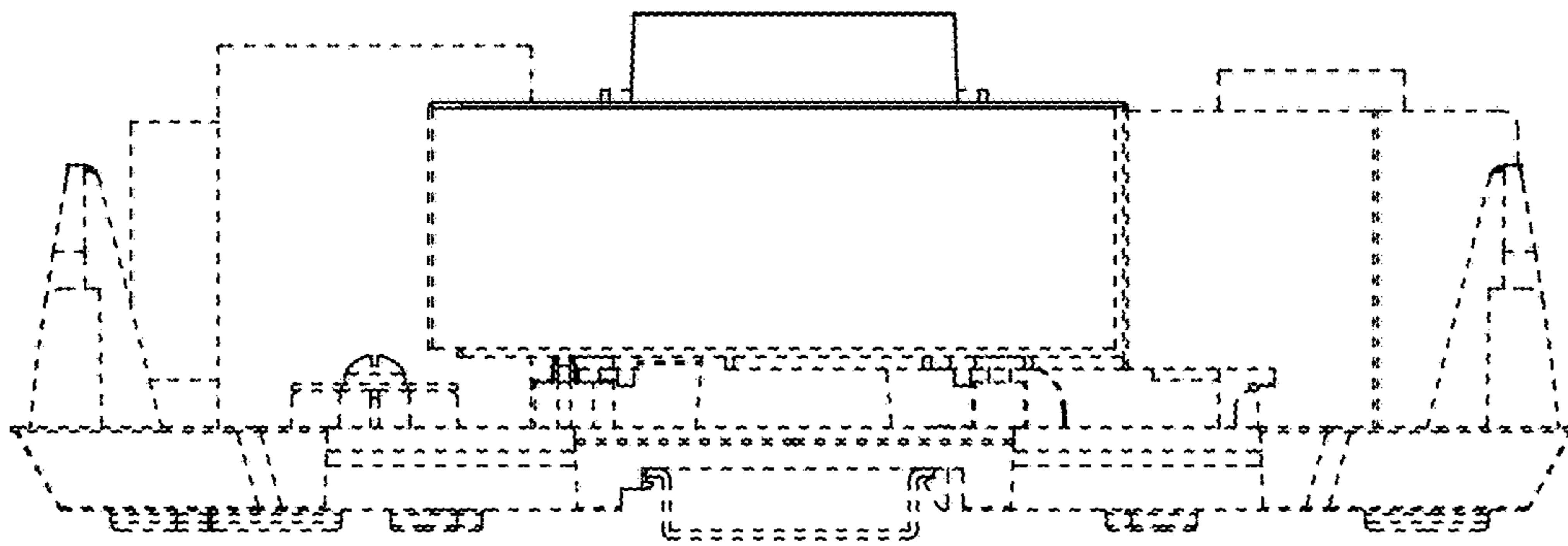


FIG. 11

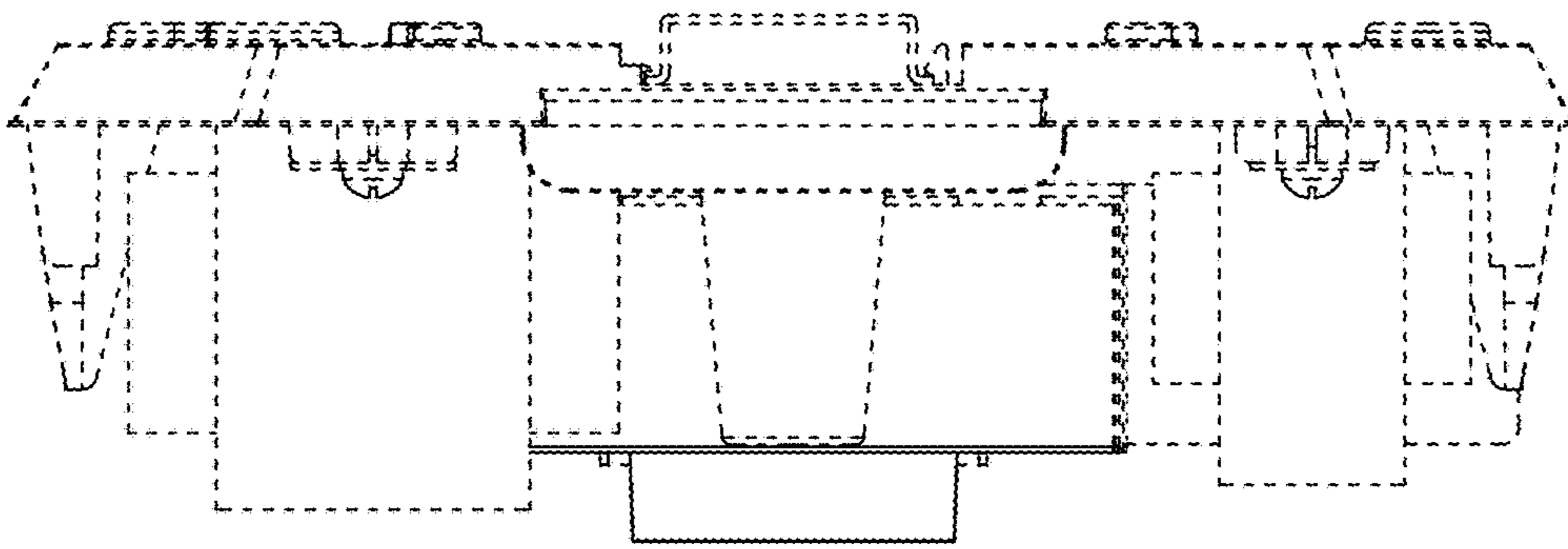


FIG. 12

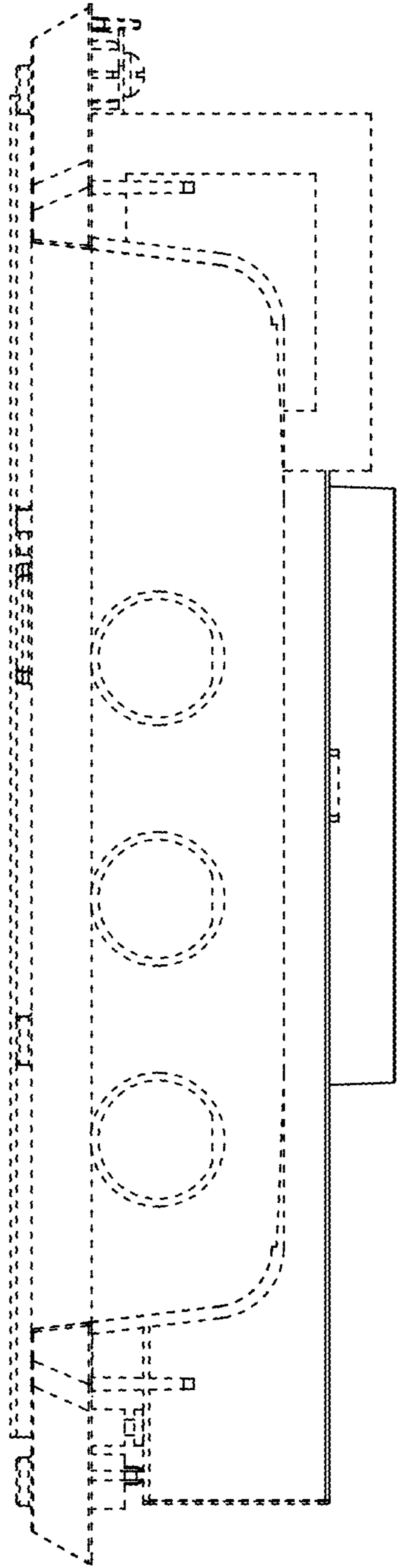


FIG. 13

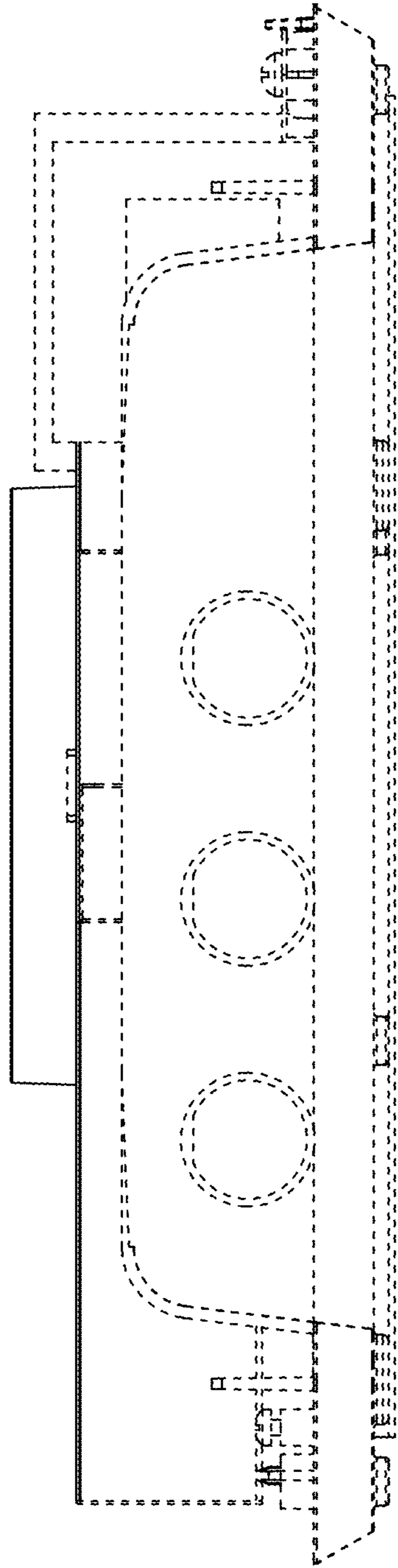


FIG. 14