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Ni et al.

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(45) **Date of Patent:** **** Oct. 29, 2013**

(54) **IN-WALL PASSIVE INFRARED OCCUPANCY SENSOR**

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(73) Assignee: **Wenzhou MTLIC Electric Appliances Co. Ltd., Yueqing, Zhejiang (CN)**

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

(21) Appl. No.: **29/429,412**

(22) Filed: **Aug. 10, 2012**

(51) **LOC (9) Cl.** **10-04**

(52) **U.S. Cl.**
USPC **D10/70**

(58) **Field of Classification Search**

USPC D10/65, 70, 75, 78, 97, 106.1–106.8;
D14/138 R, 138 AA, 138 AB, 138 AC,
D14/138 AD, 341–347, 507–510, 136, 167,
D14/168, 496, 498, 499, 500, 125–134, 239,
D14/371, 374–377, 440, 450, 448, 336,
D14/342; 343/702; 345/87, 104, 133, 156,
345/168, 173, 901–905, 165; 348/180, 184,
348/315, 739, 836, 838, 325; 364/444, 499;
701/408–418, 431, 432, 537; 312/7.2;
341/12; 720/605, 669, 600, 655;
369/99, 197; 455/344, 347, 575.1;
250/221, 338.3, 340, 239, 342, 341,
250/DIG. 1, 353; 307/116, 117; 340/521,
340/527, 541, 567, 540, 568.2, 539.23, 635,
340/687; 315/159; 324/72.5, 556, 133, 149,
324/503, 543, 555, 66, 72, 754, 115, 141,
324/522; 73/615, 624, 627, 644, 514.33,
73/514.34, 510, 513, 527, 530;
356/3.01–5.15; 235/105; 377/5, 24.2,
377/26; 702/155, 160, 176, 78, 79, 82,
702/91–95, 104, 116, 141, 150, 151, 154,
702/127, 131, 182, 183, 189; 600/437, 443,
600/453, 459, 465, 479, 500, 502, 595, 485,
600/481, 483

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D569,284 S * 5/2008 Ni et al. D10/70
D656,849 S * 4/2012 Ni et al. D10/70
2009/0095889 A1* 4/2009 Bender et al. 250/221

Primary Examiner — Antoine D Davis

(74) *Attorney, Agent, or Firm* — Ziegler IP Law Group, LLC.

(57) **CLAIM**

The ornamental design for an in-wall passive infrared occupancy sensor, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of one embodiment of the sensor showing the new design.

FIG. 2 is a front view of the embodiment shown in FIG. 1.

FIG. 3 is a left side view of the embodiment shown in FIG. 1.

FIG. 4 is a right side view of the embodiment shown in FIG. 1.

1.

FIG. 5 is a top view of the embodiment shown in FIG. 1.

FIG. 6 is a bottom view of the embodiment shown in FIG. 1.

FIG. 7 is a back view of the embodiment shown in FIG. 1.

FIG. 8 is a perspective view of another embodiment of the sensor showing the new design.

FIG. 9 is a front view of the embodiment shown in FIG. 8.

FIG. 10 is a left side view of the embodiment shown in FIG. 8.

8.

FIG. 11 is a right side view of the embodiment shown in FIG. 8.

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FIG. 12 is a top view of the embodiment shown in FIG. 8.

FIG. 13 is a bottom view of the embodiment shown in FIG. 8.

FIG. 14 is a back view of the embodiment shown in FIG. 8.

FIG. 15 is a perspective view of another embodiment of the sensor showing the new design.

FIG. 16 is a front view of the embodiment shown in FIG. 15.

FIG. 17 is a left side view of the embodiment shown in FIG. 15.

15.

FIG. 18 is a right side view of the embodiment shown in FIG. 15.

15.

FIG. 19 is a top view of the embodiment shown in FIG. 15.

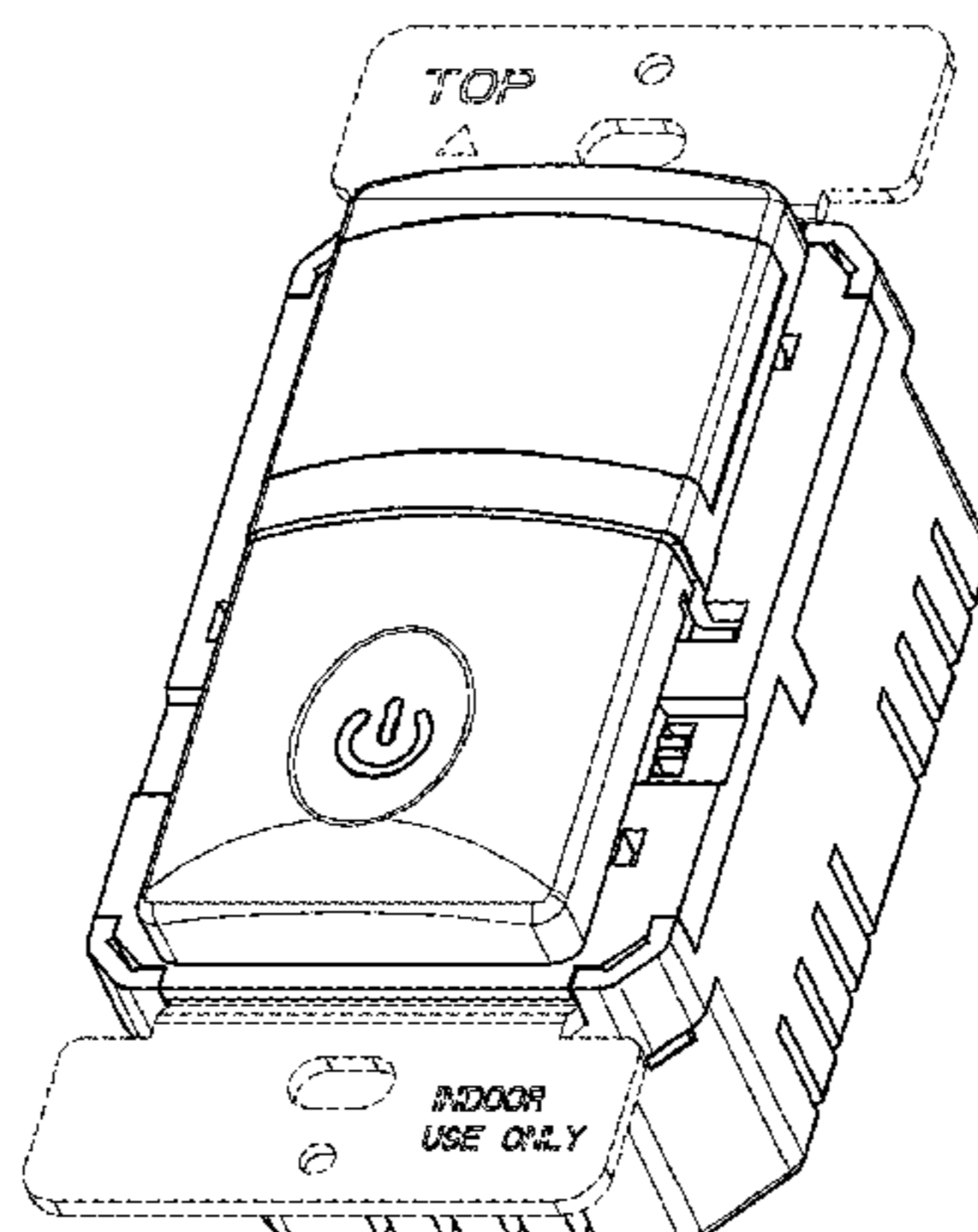


FIG. **20** is a bottom view of the embodiment shown in FIG. **15**.

FIG. **21** is a back view of the embodiment shown in FIG. **15**.

FIG. **22** is a perspective view of another embodiment of the sensor showing the new design.

FIG. **23** is a front view of the embodiment shown in FIG. **22**.

FIG. **24** is a left side view of the embodiment shown in FIG. **22**.

FIG. **25** is a right side view of the embodiment shown in FIG. **22**.

FIG. **26** is a top view of the embodiment shown in FIG. **22**.

FIG. **27** is a bottom view of the embodiment shown in FIG. **22**; and,

FIG. **28** is a back view of the embodiment shown in FIG. **22**.

The broken lines are for the purpose of illustrating portions of the environment and form no part of the claimed design.

1 Claim, 28 Drawing Sheets

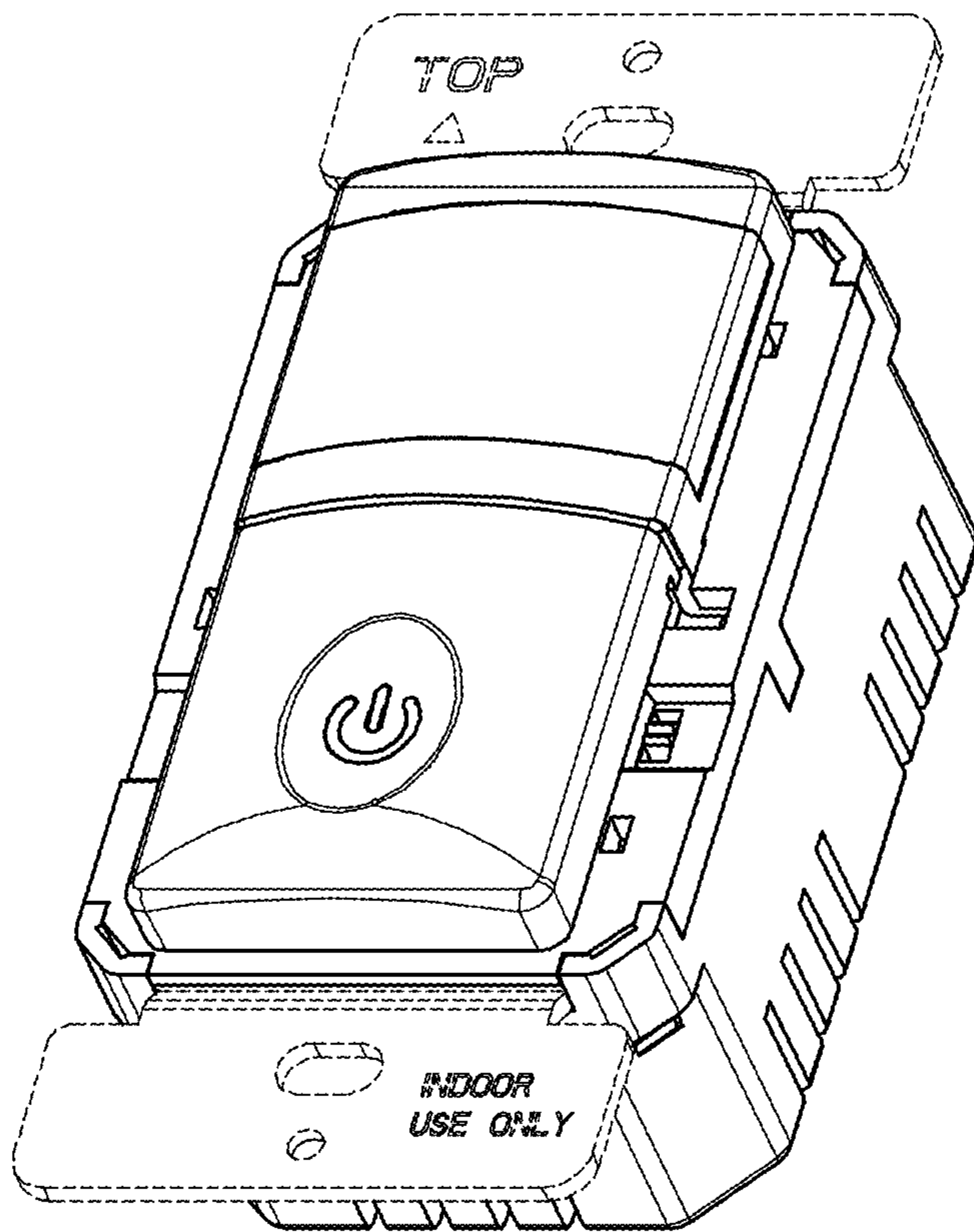


Figure 1

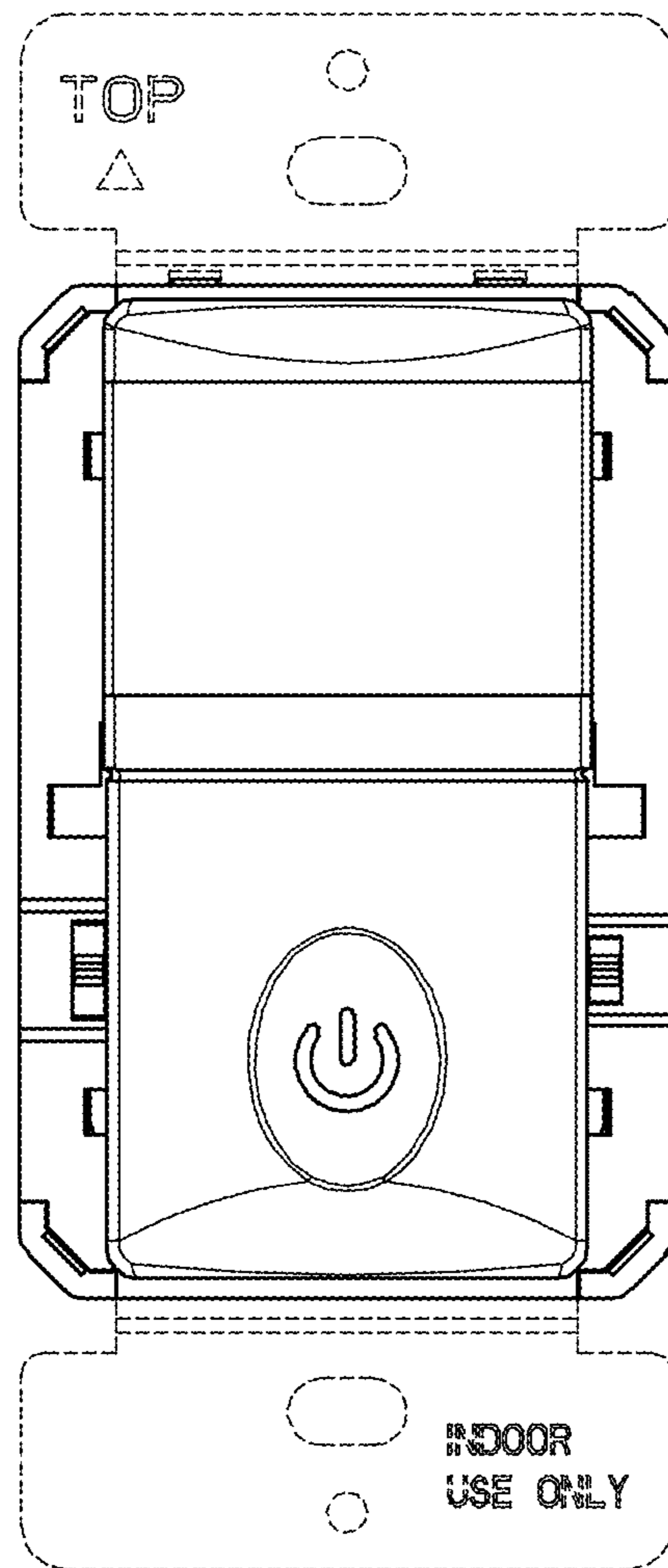


Figure 2

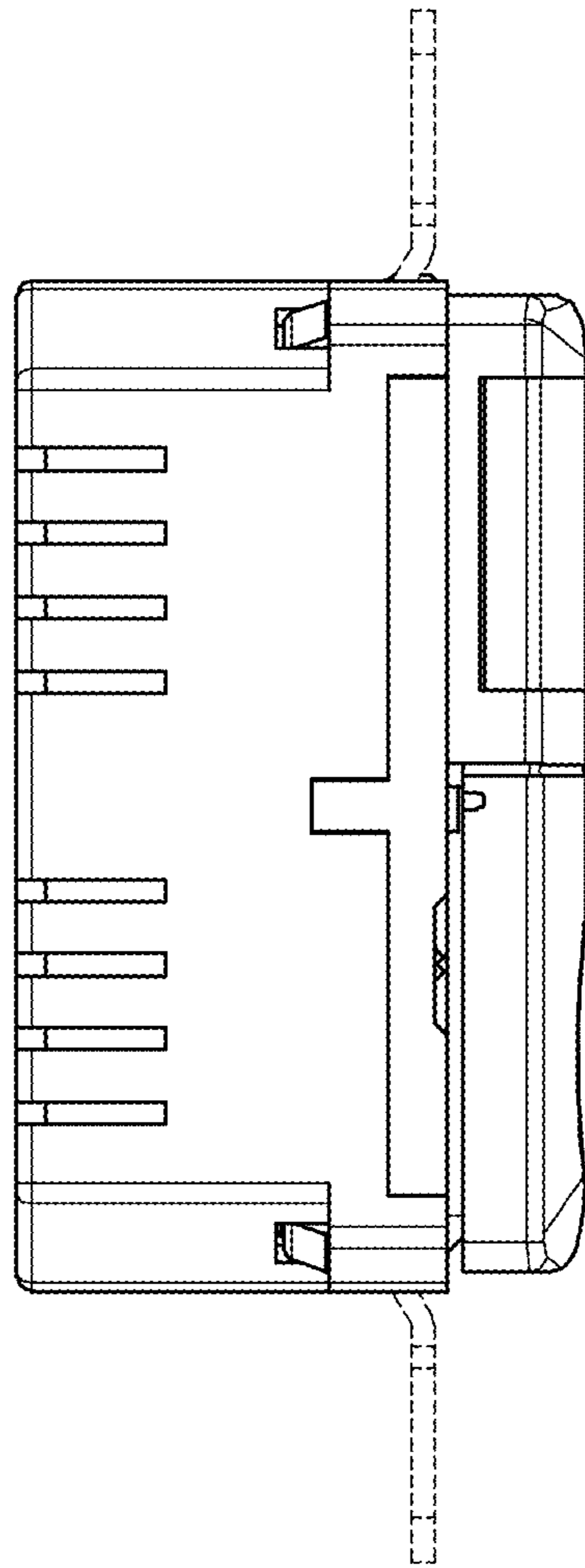


Figure 3

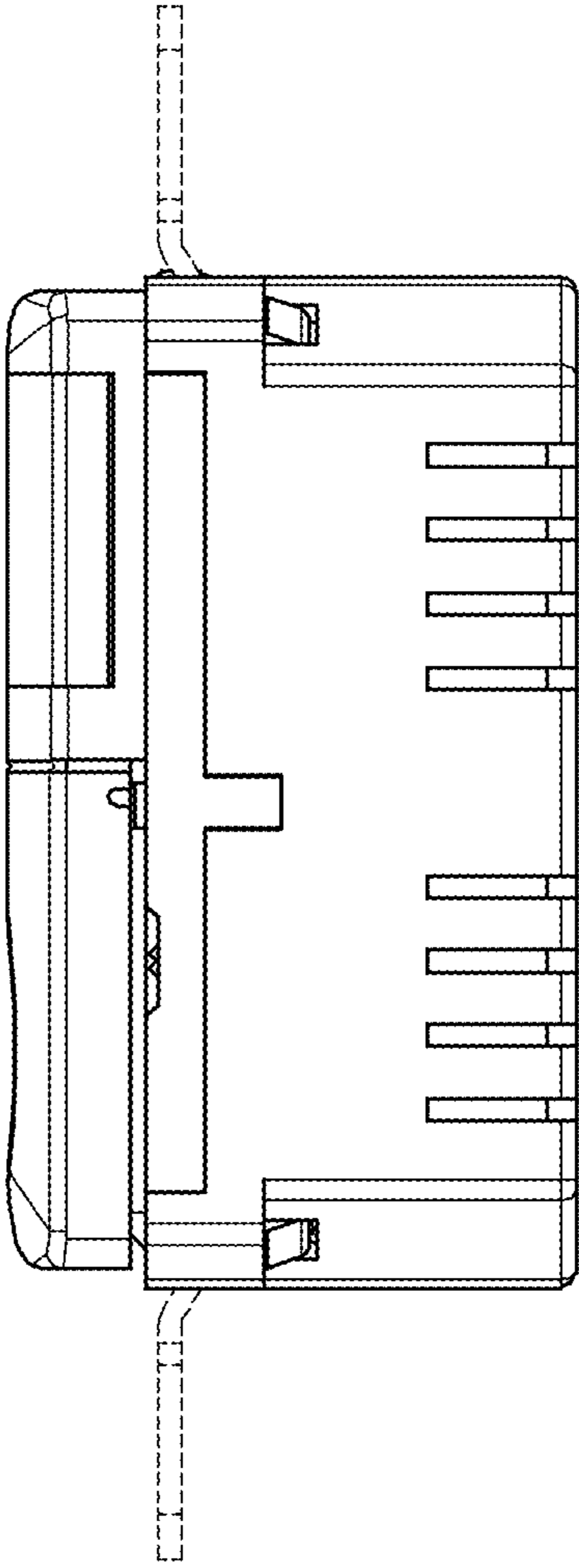


Figure 4

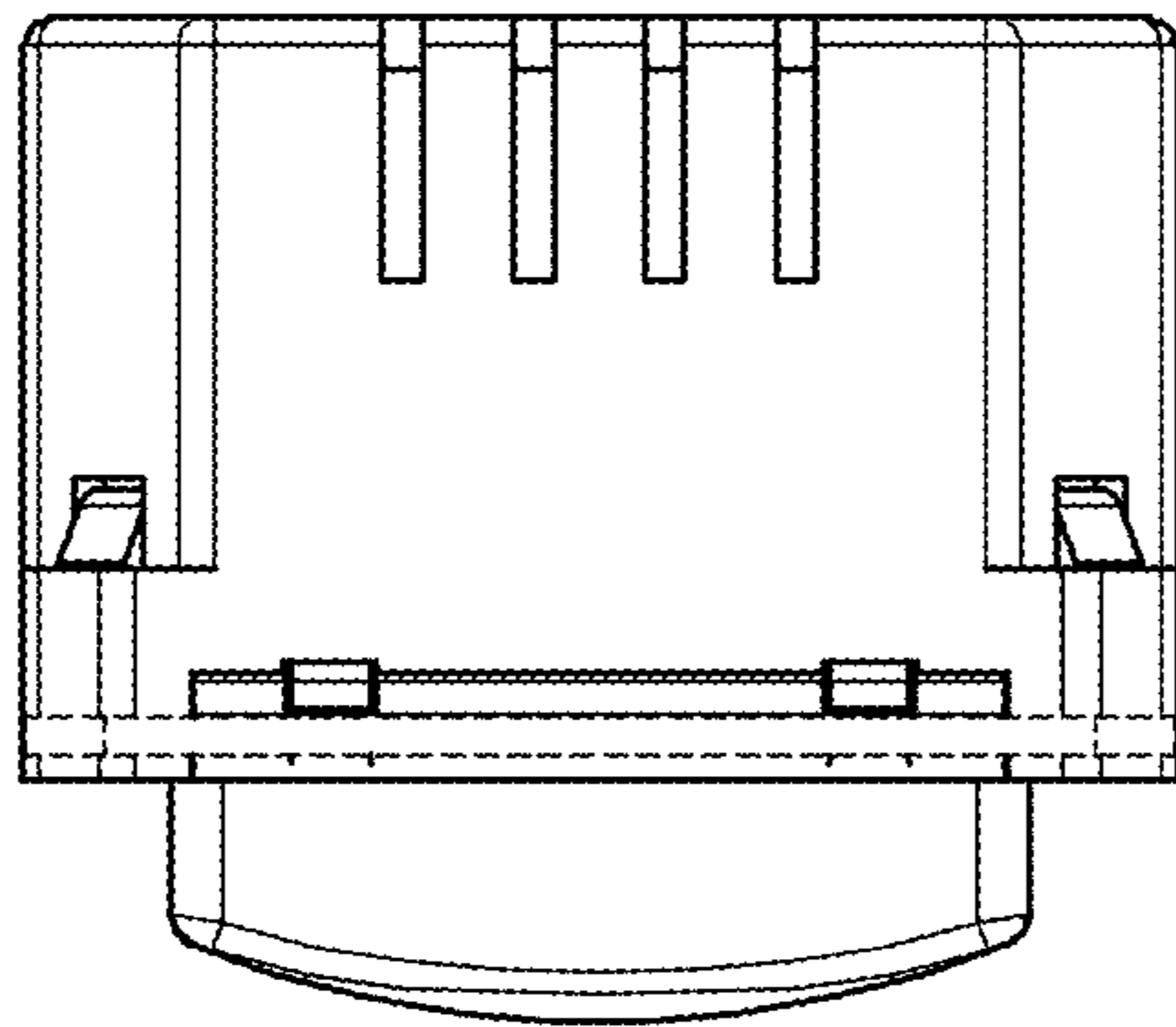


Figure 5

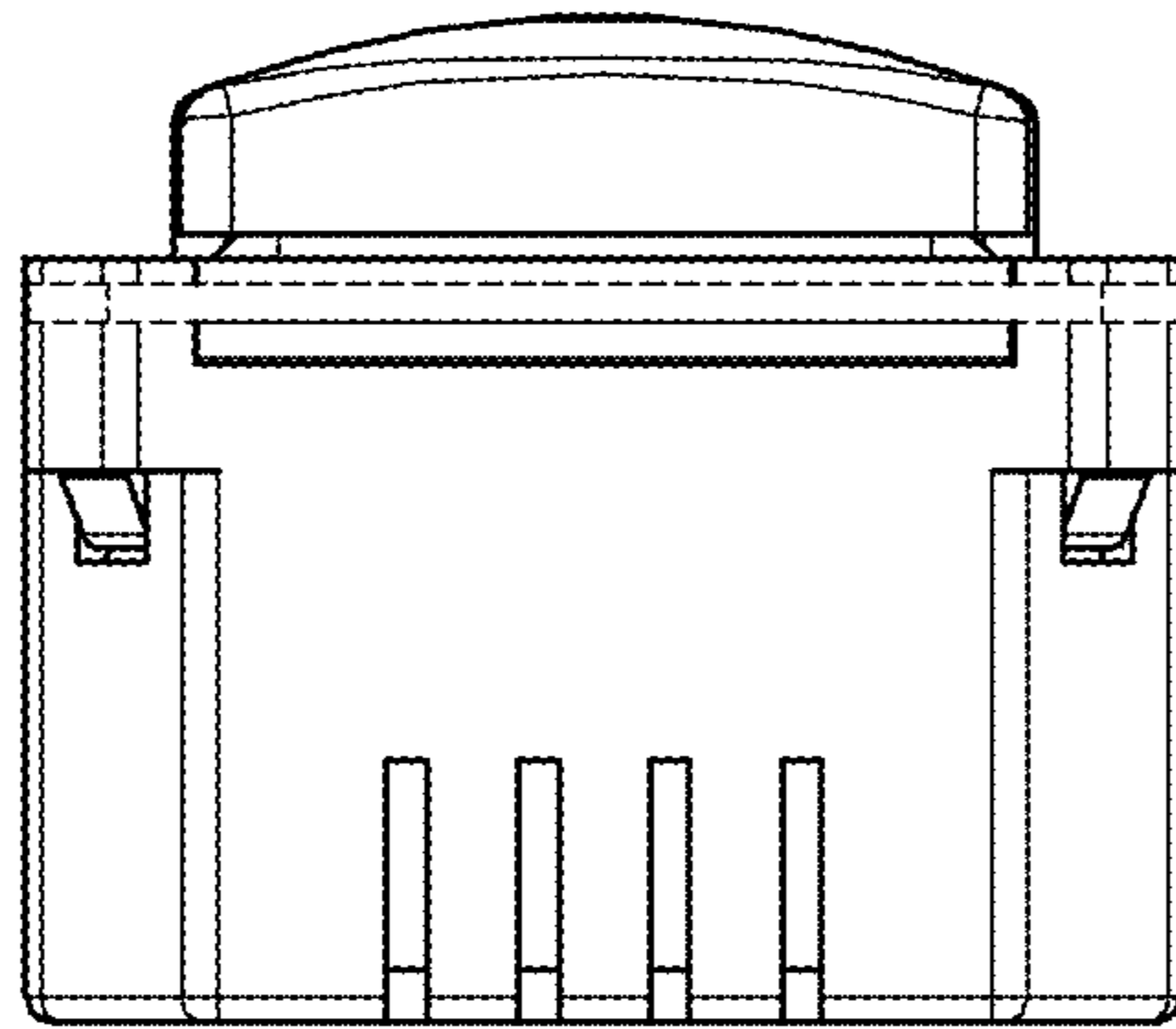


Figure 6

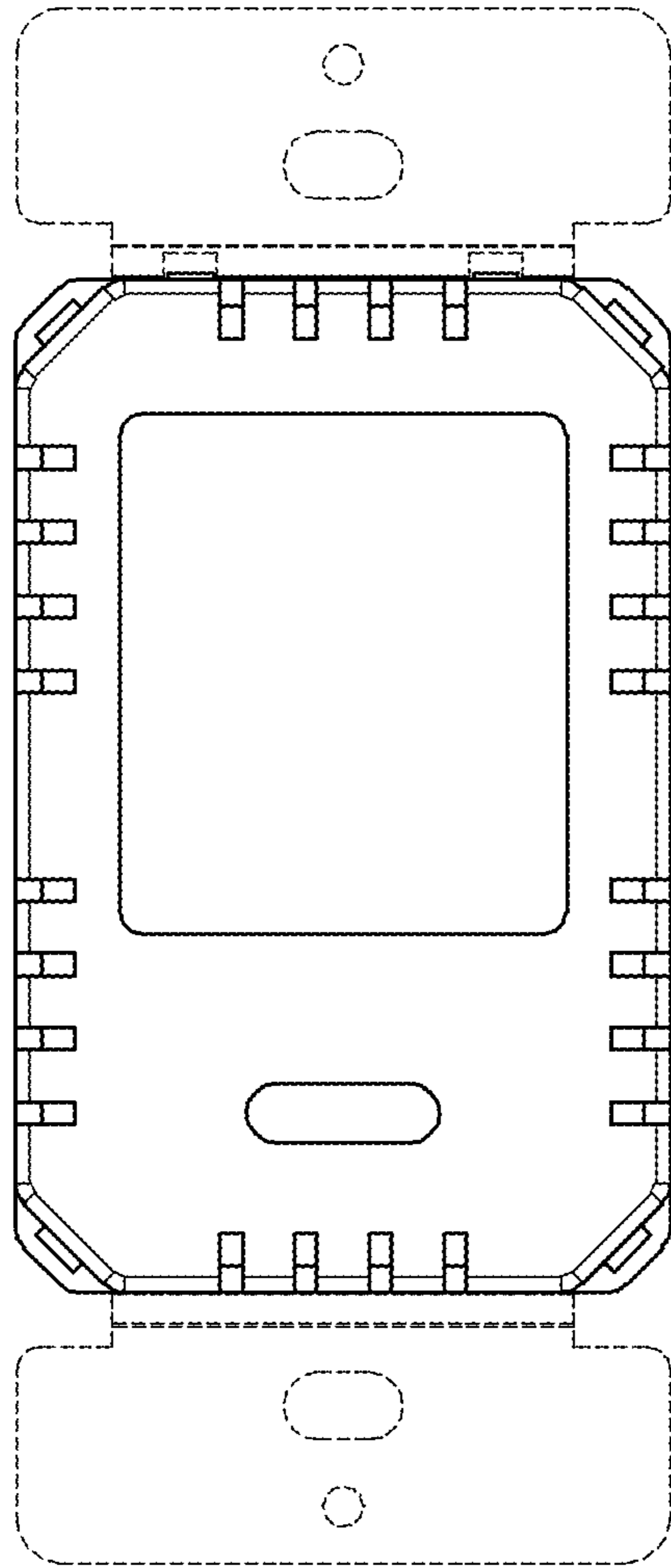


Figure 7

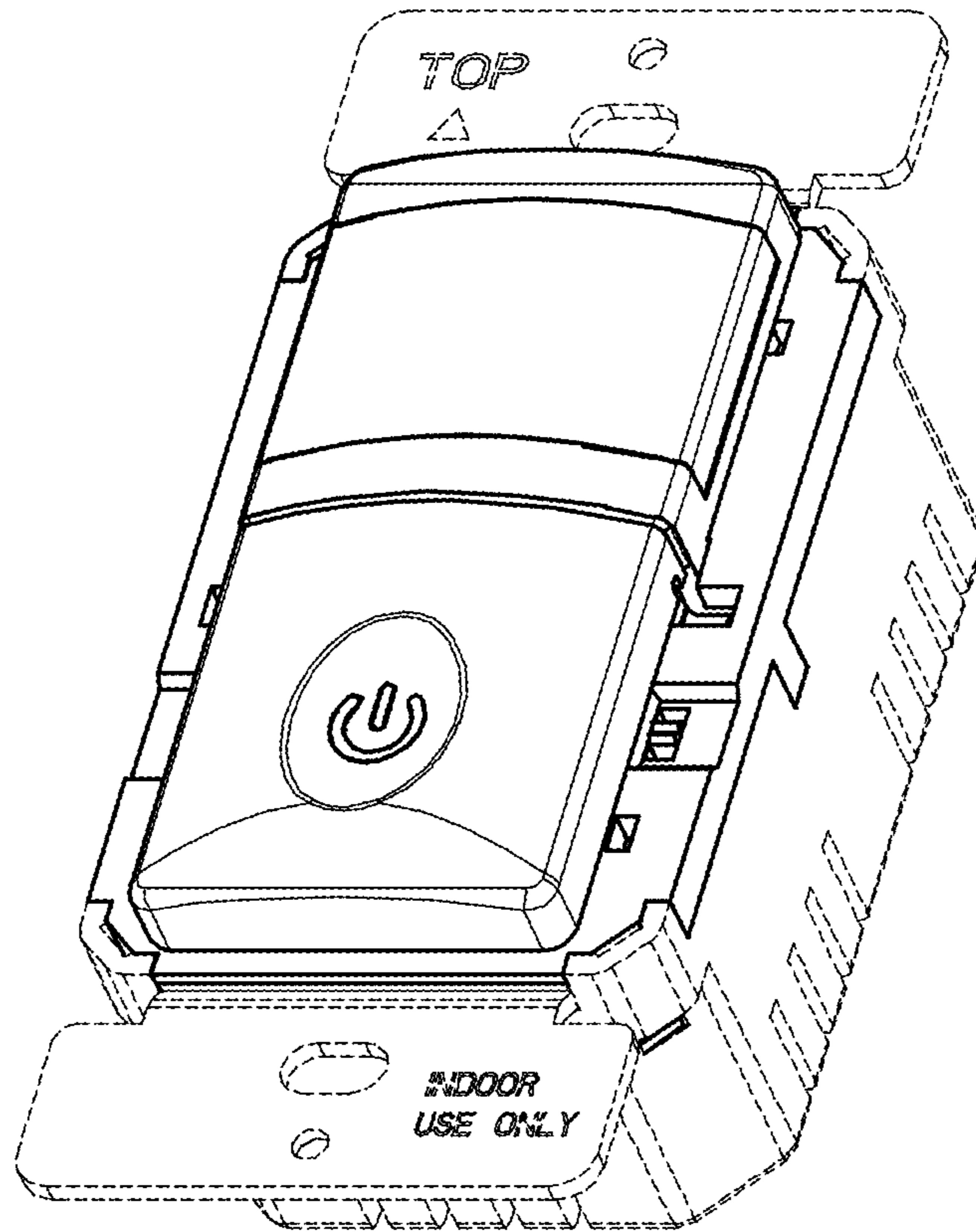


Figure 8

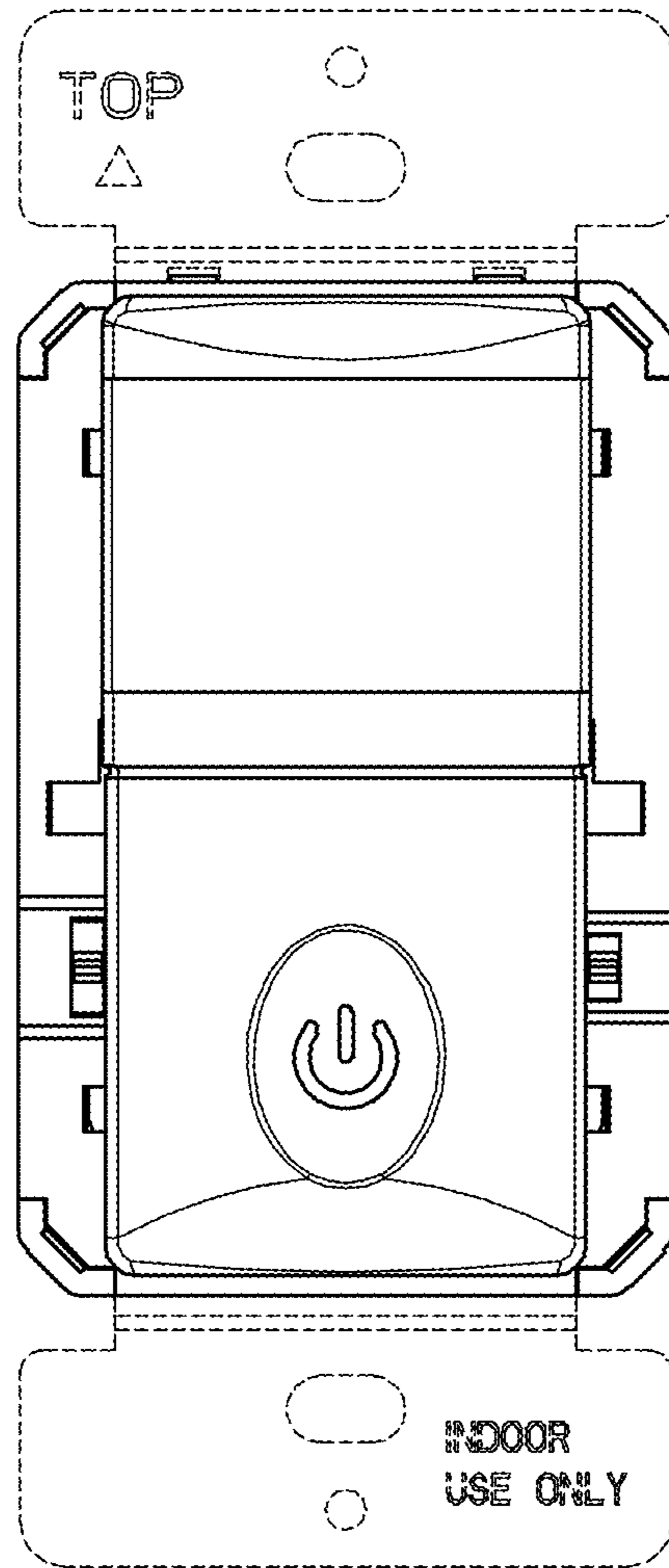


Figure 9

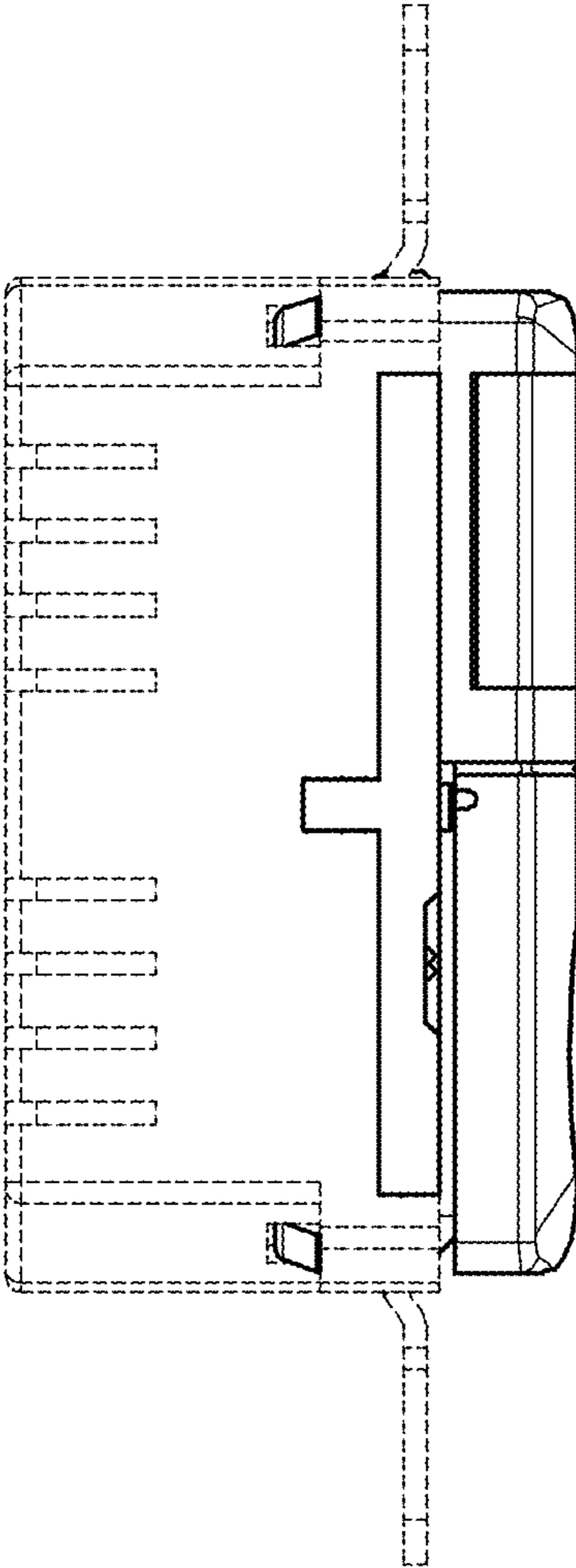


Figure 10

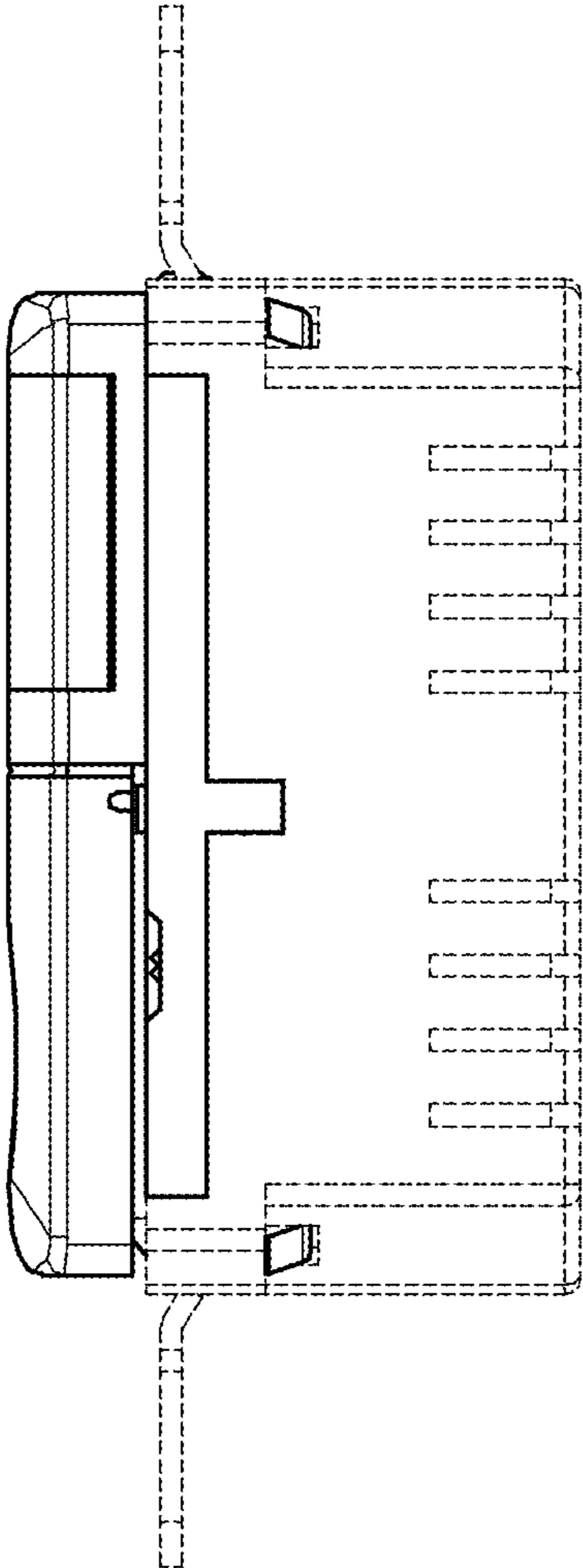


Figure 11

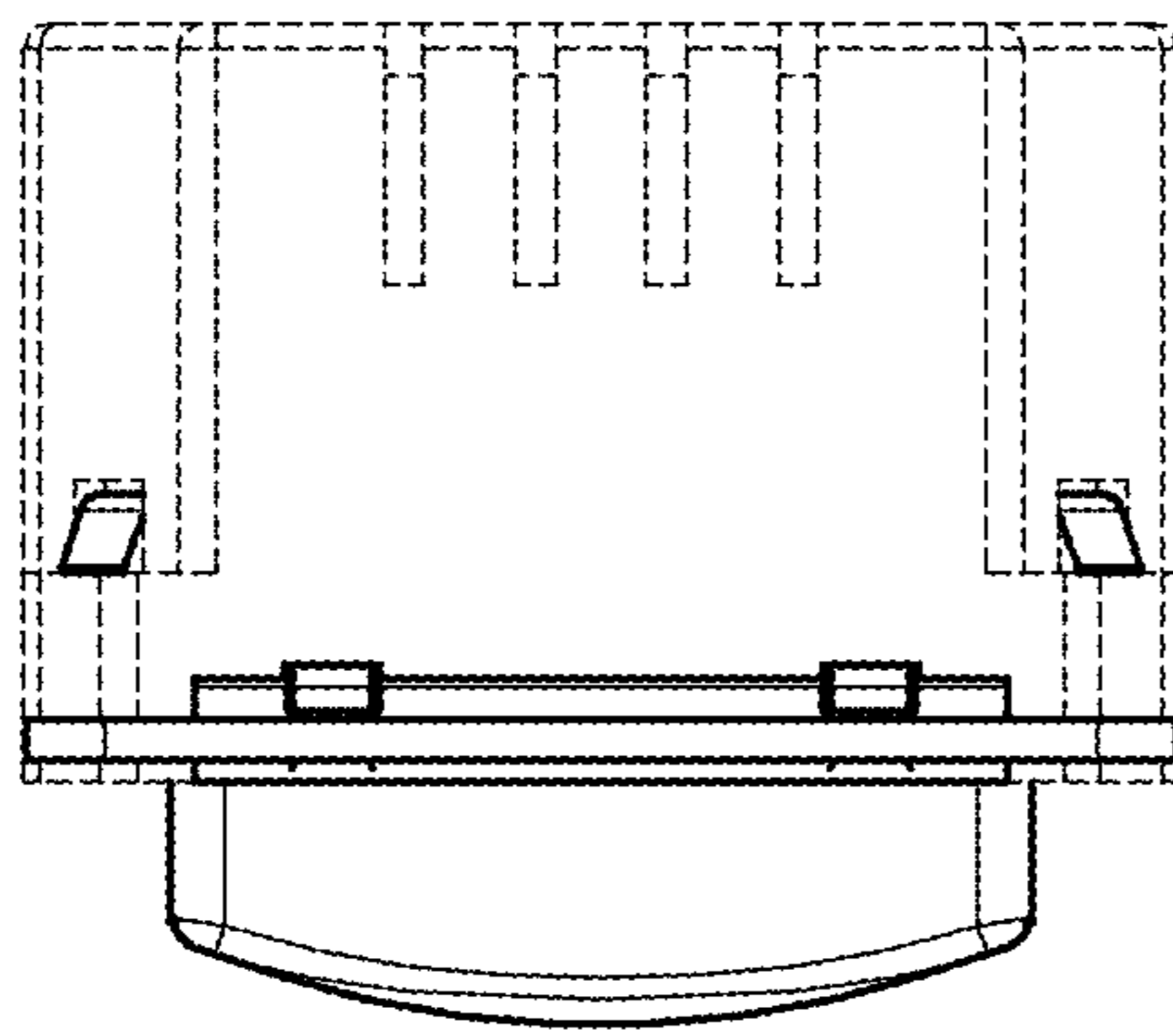


Figure 12

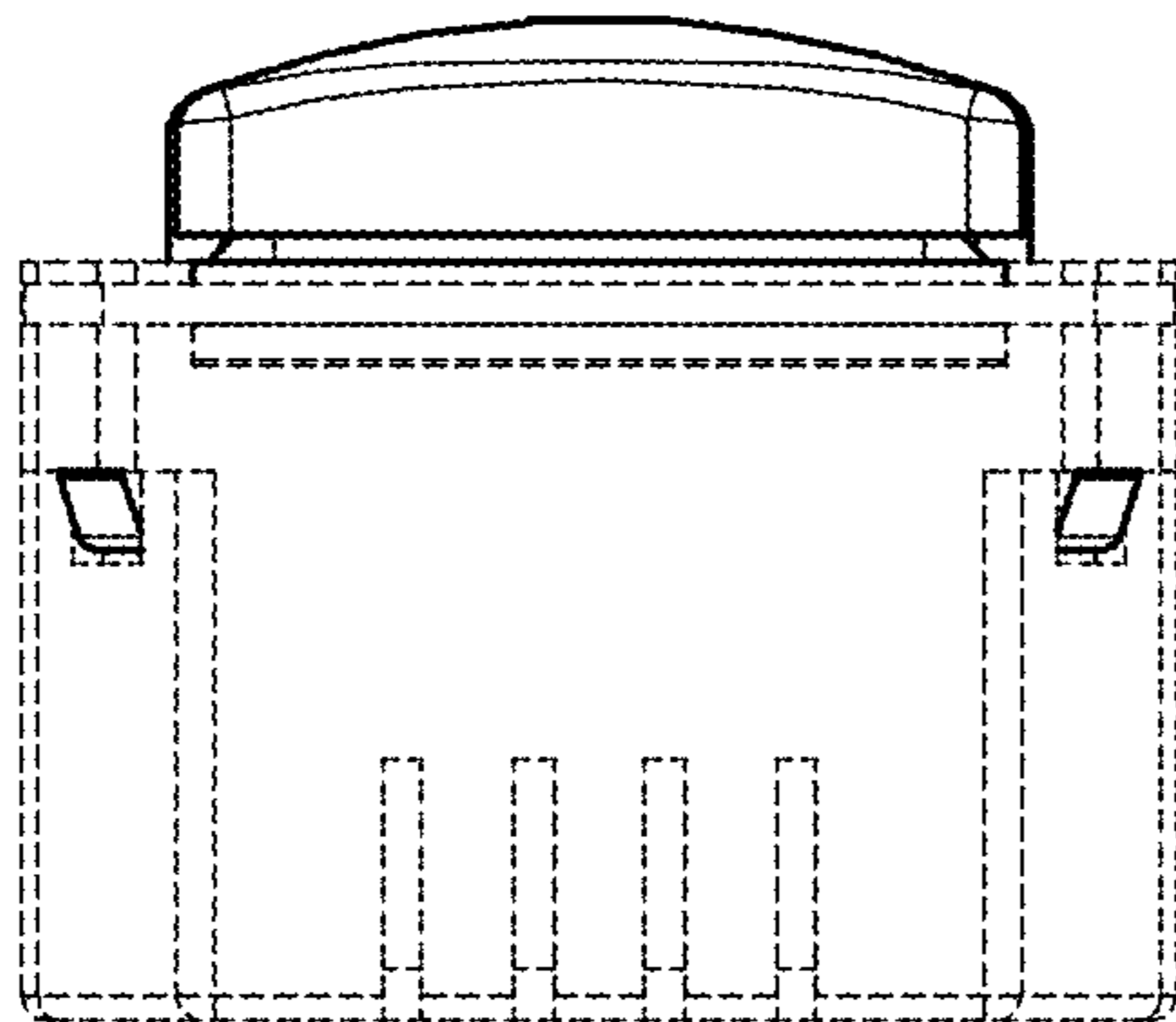


Figure 13

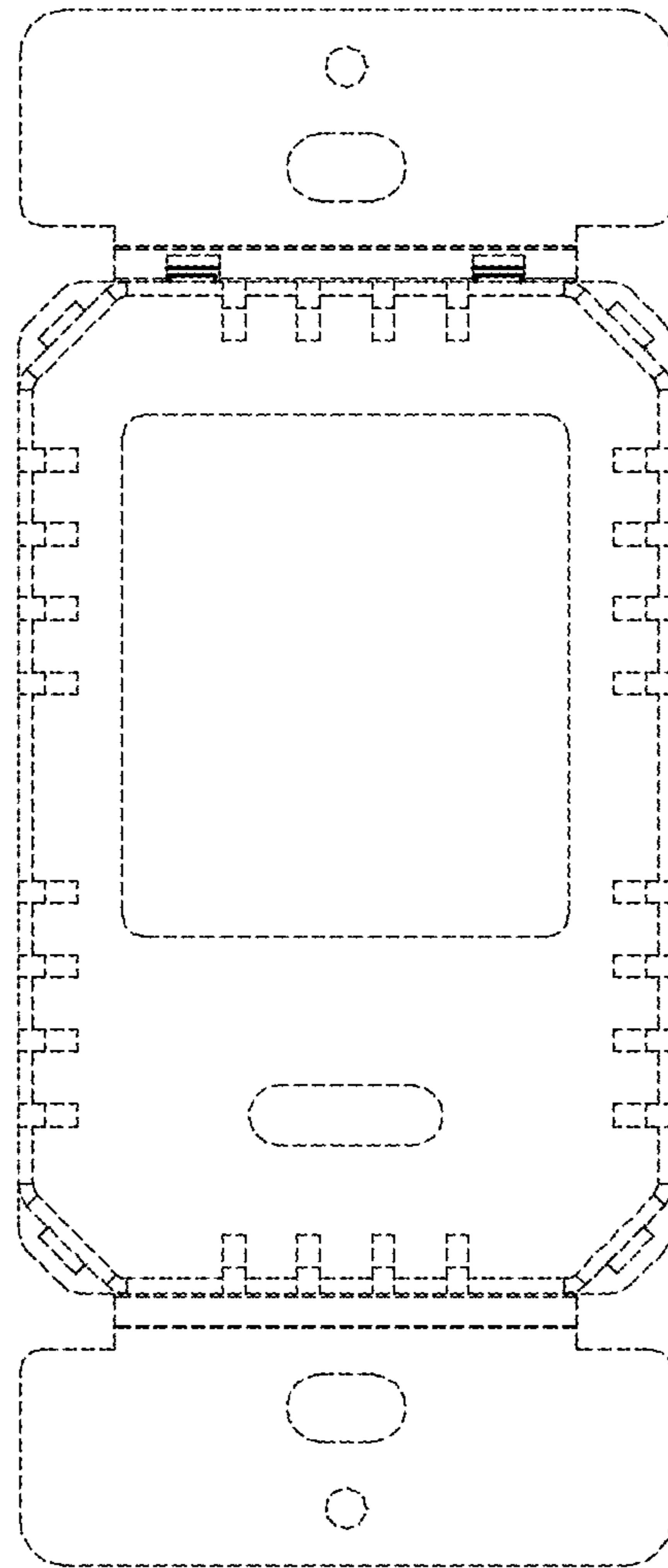


Figure 14

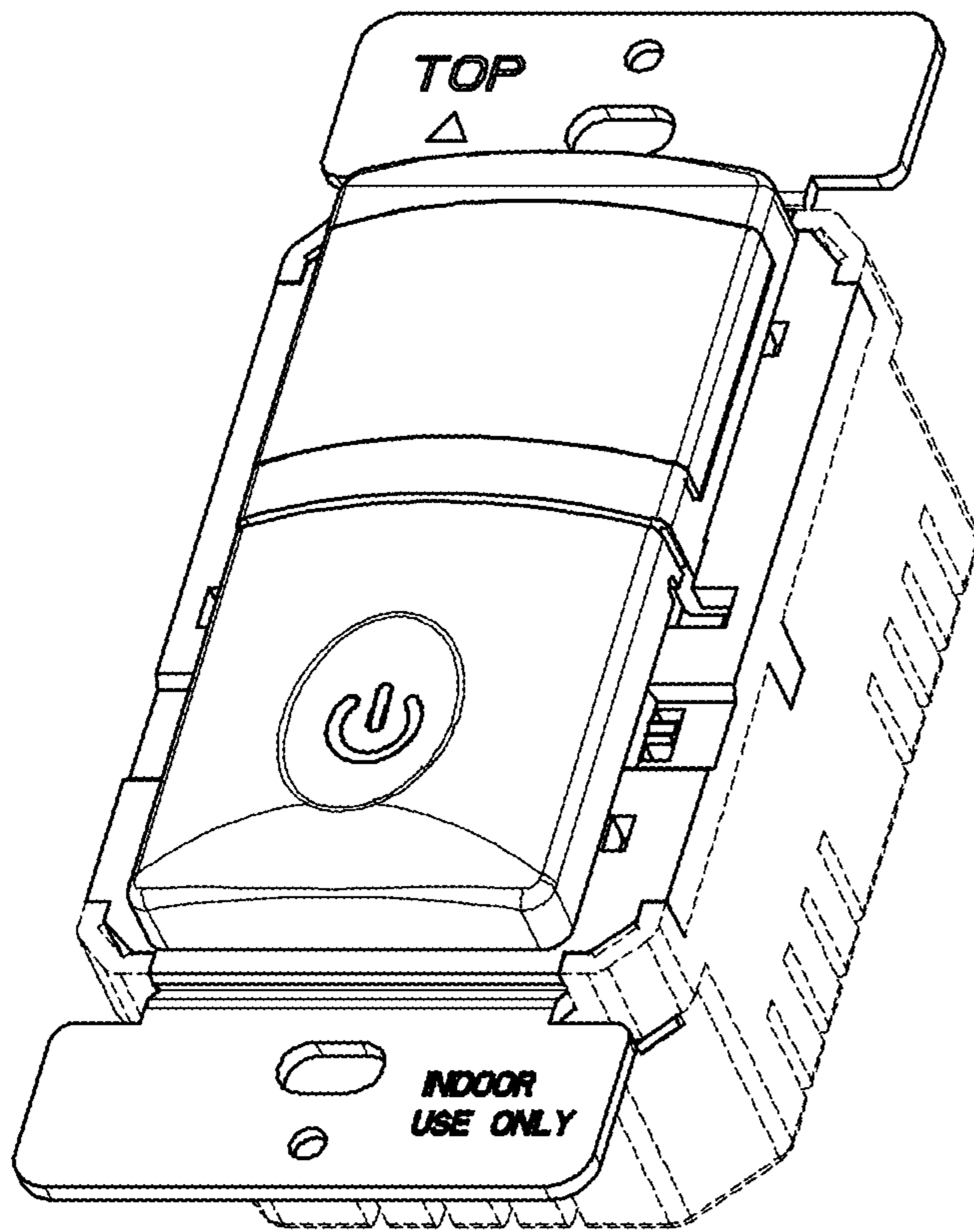


Figure 15

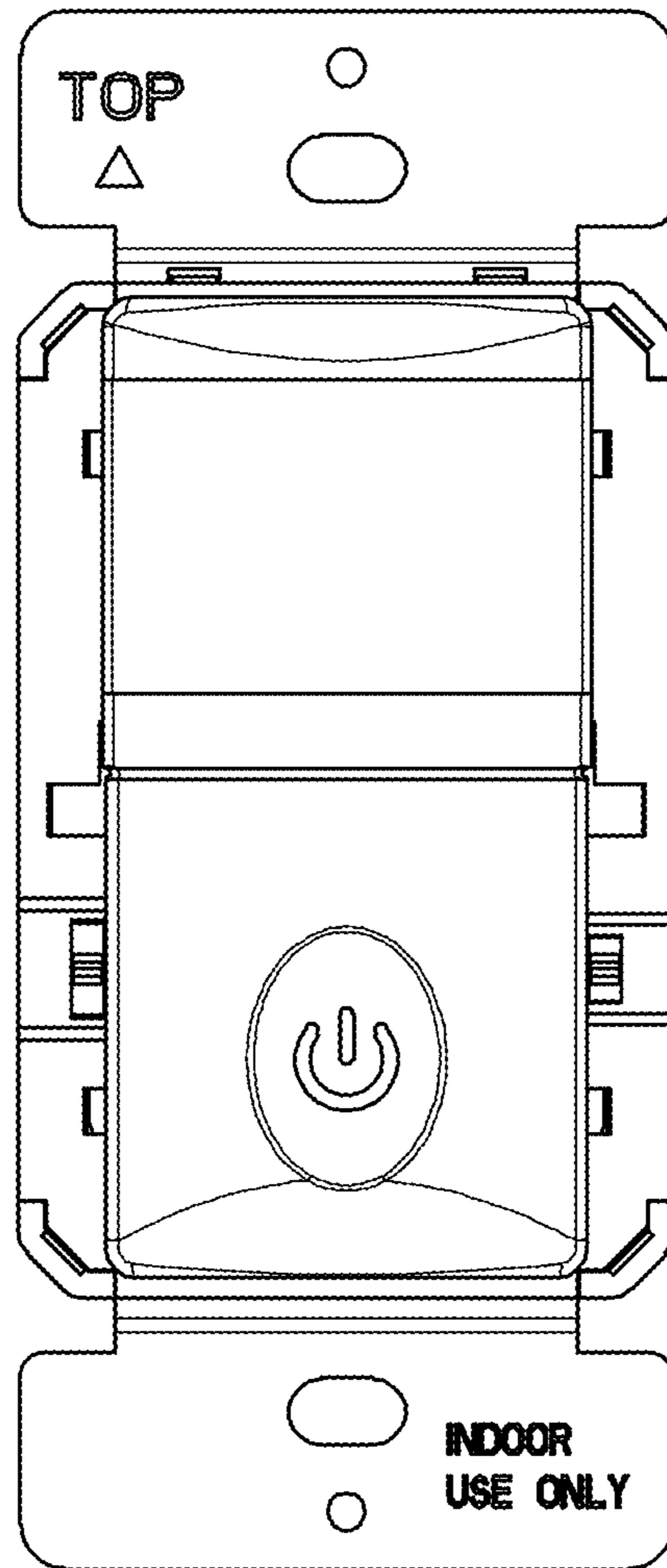


Figure 16

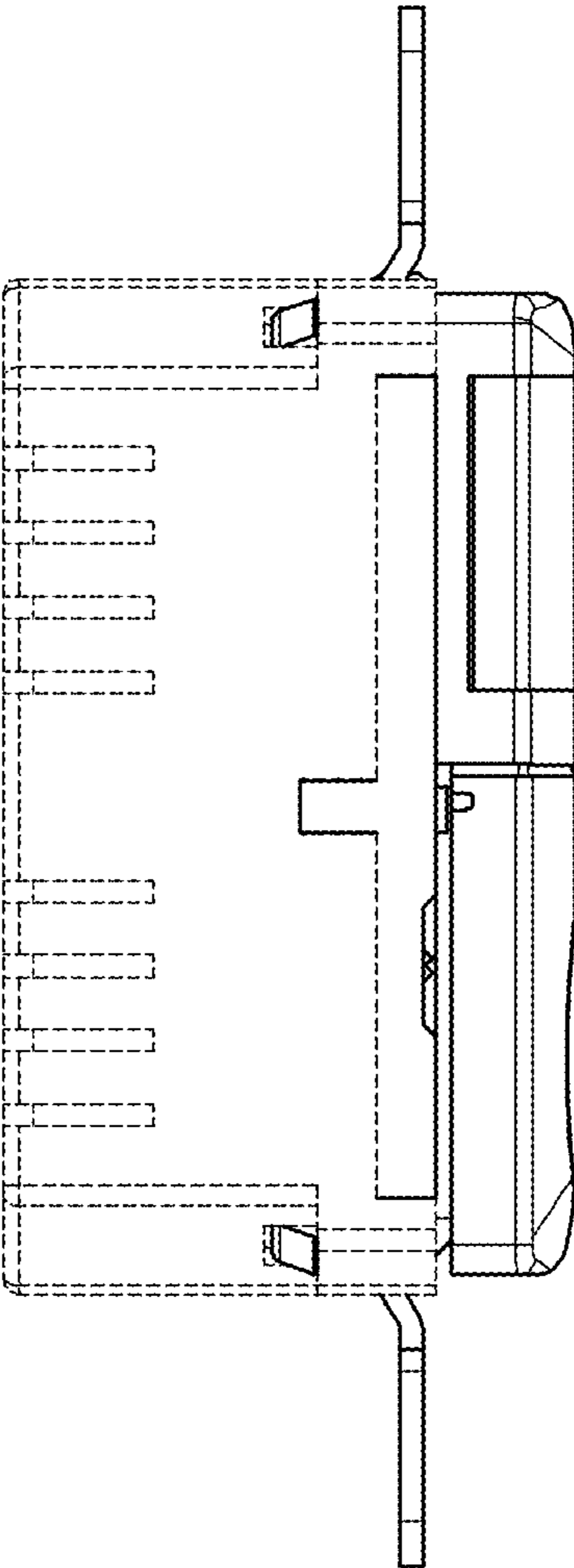


Figure 17

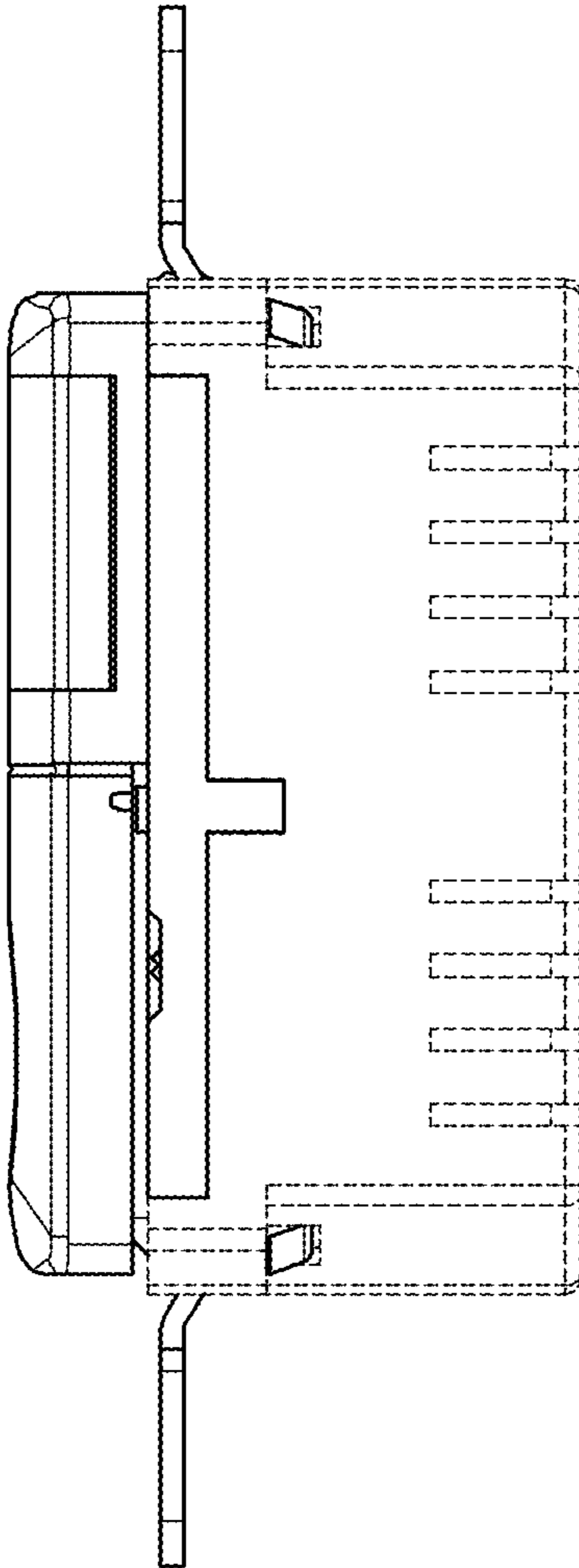


Figure 18

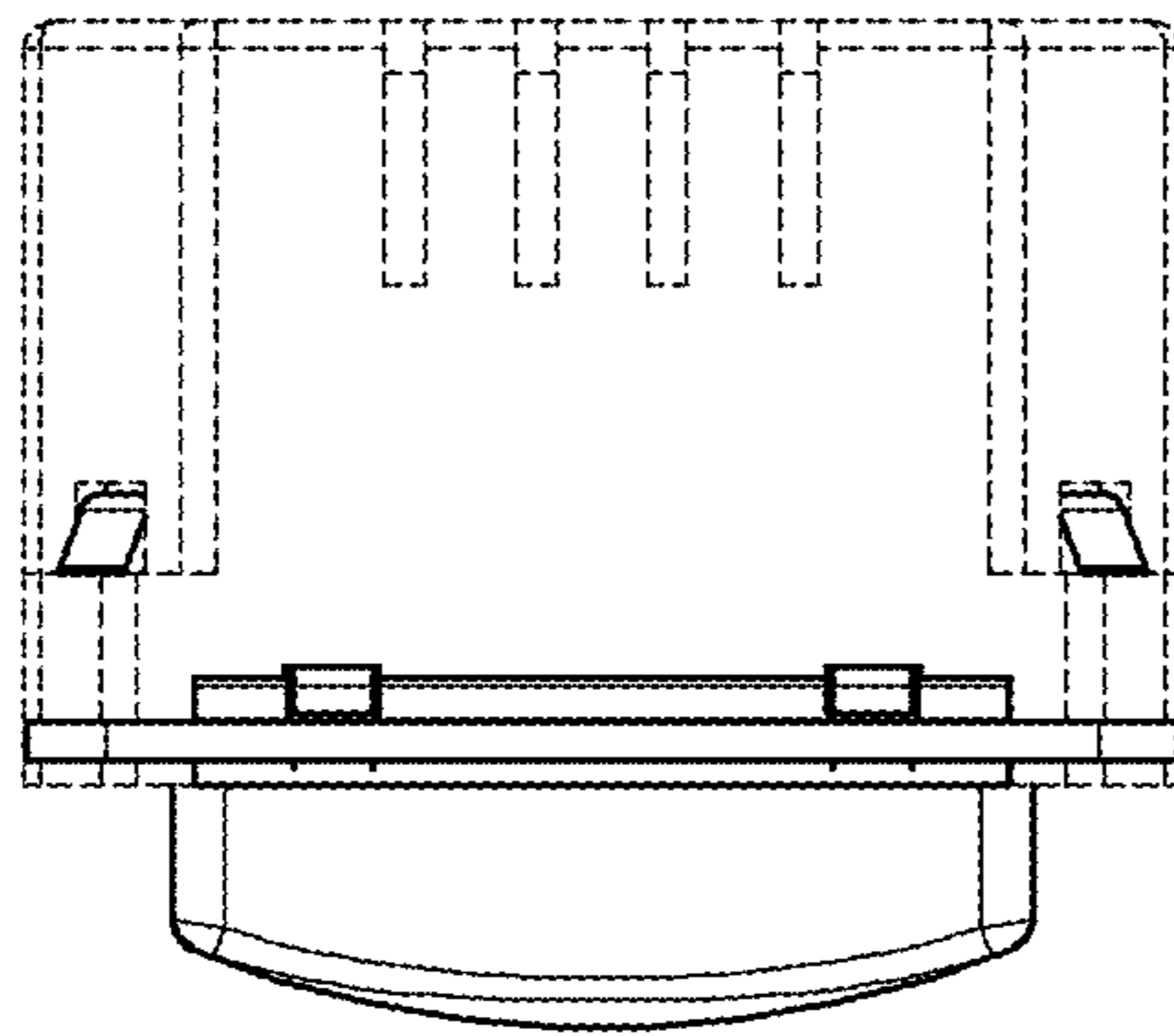


Figure 19

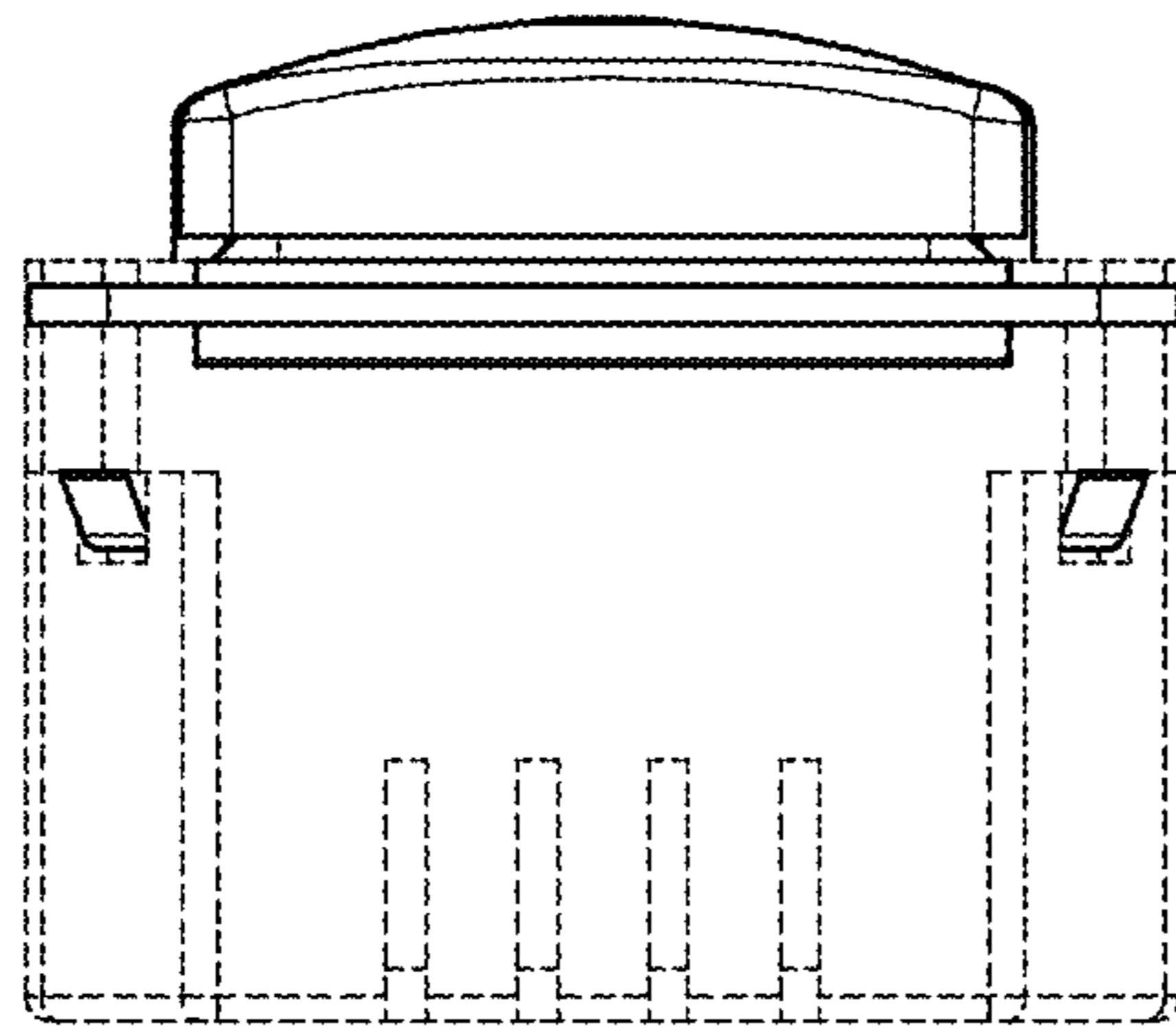


Figure 20

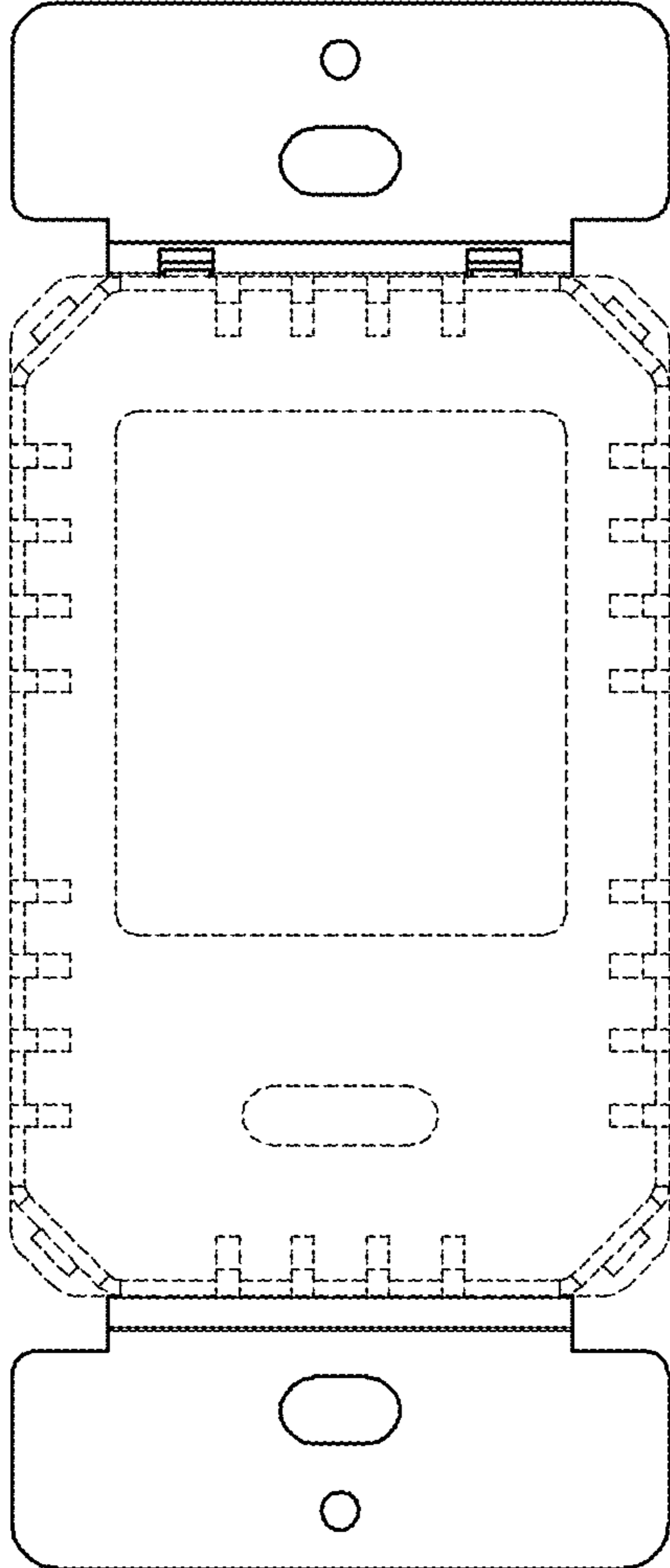


Figure 21

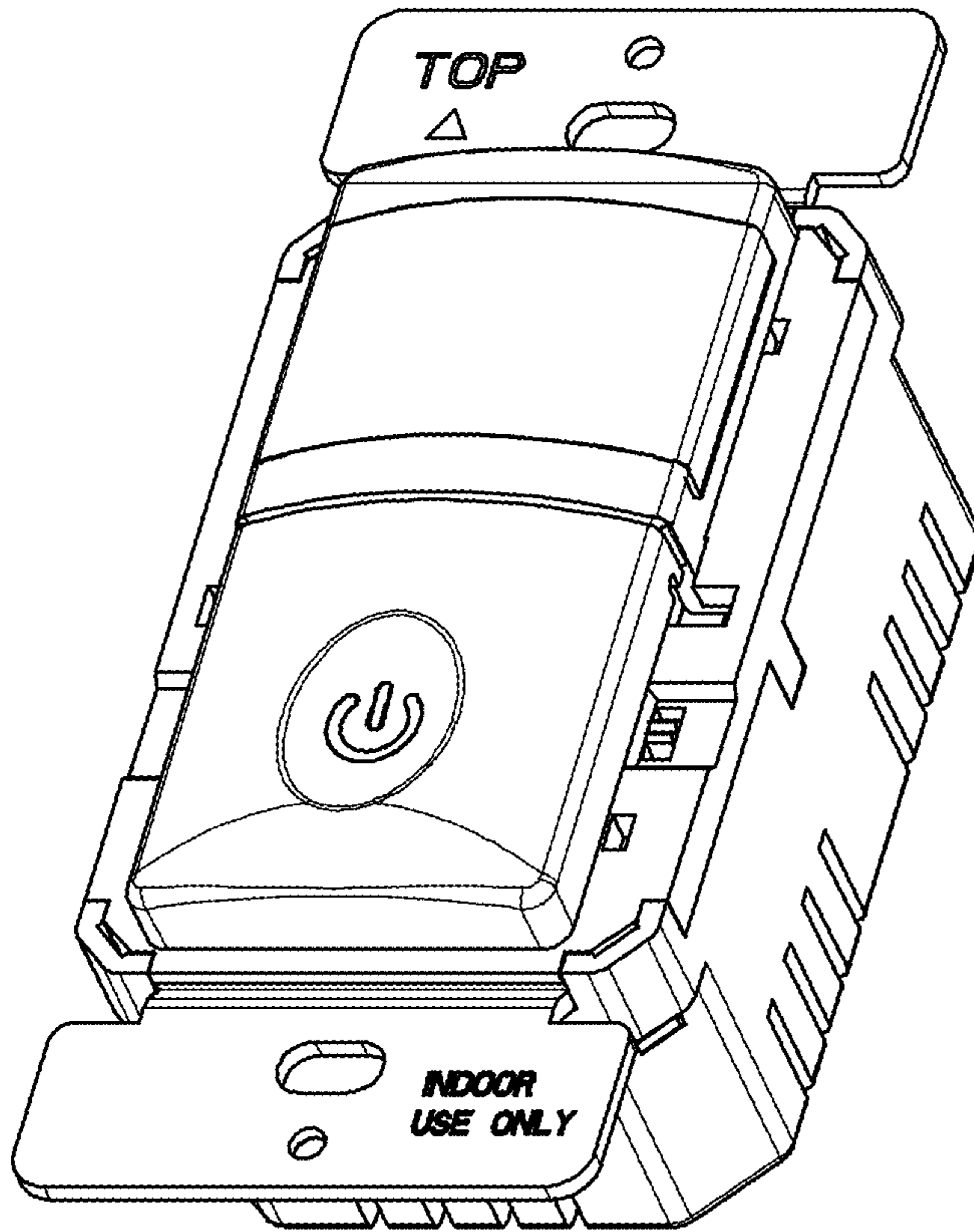


Figure 22

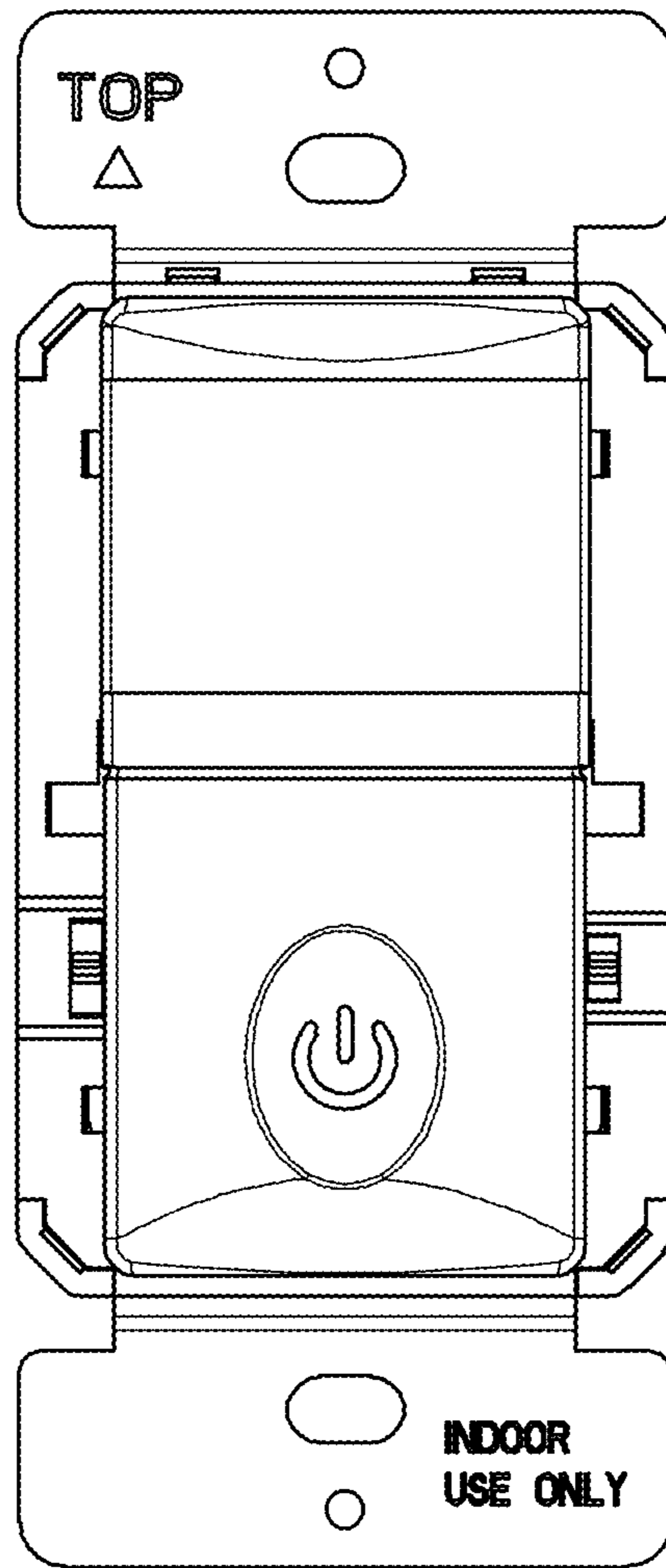


Figure 23

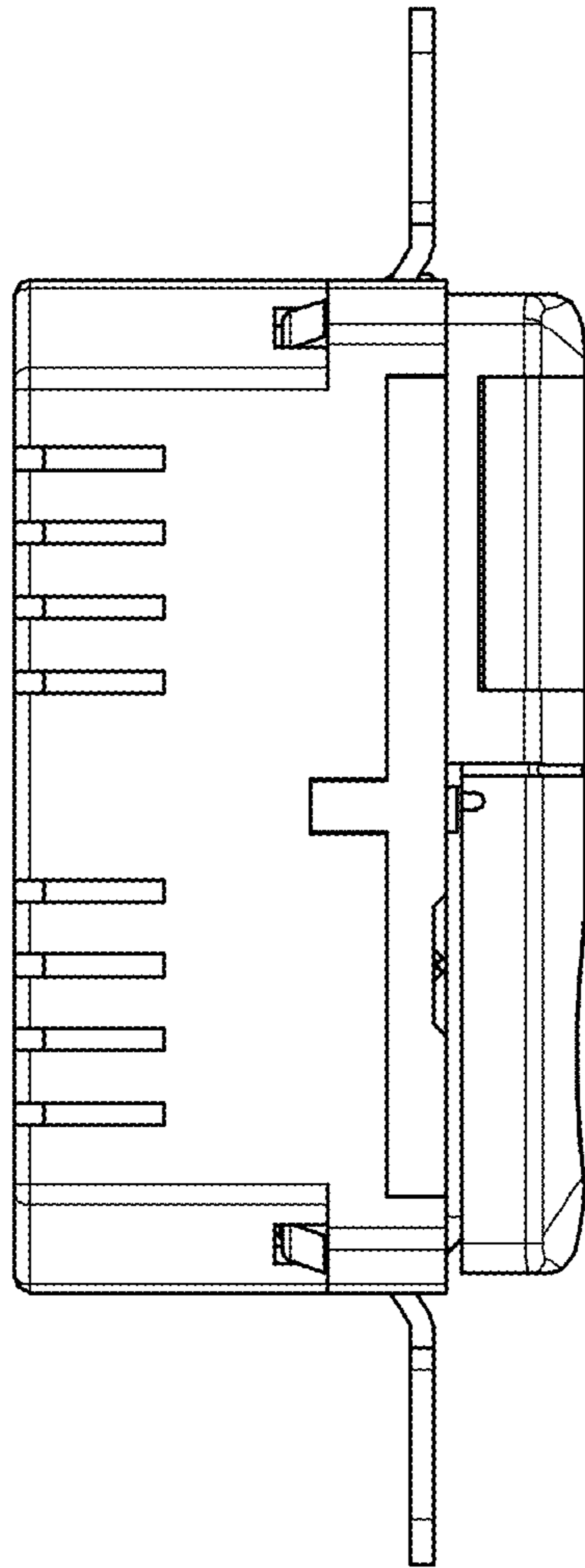


Figure 24

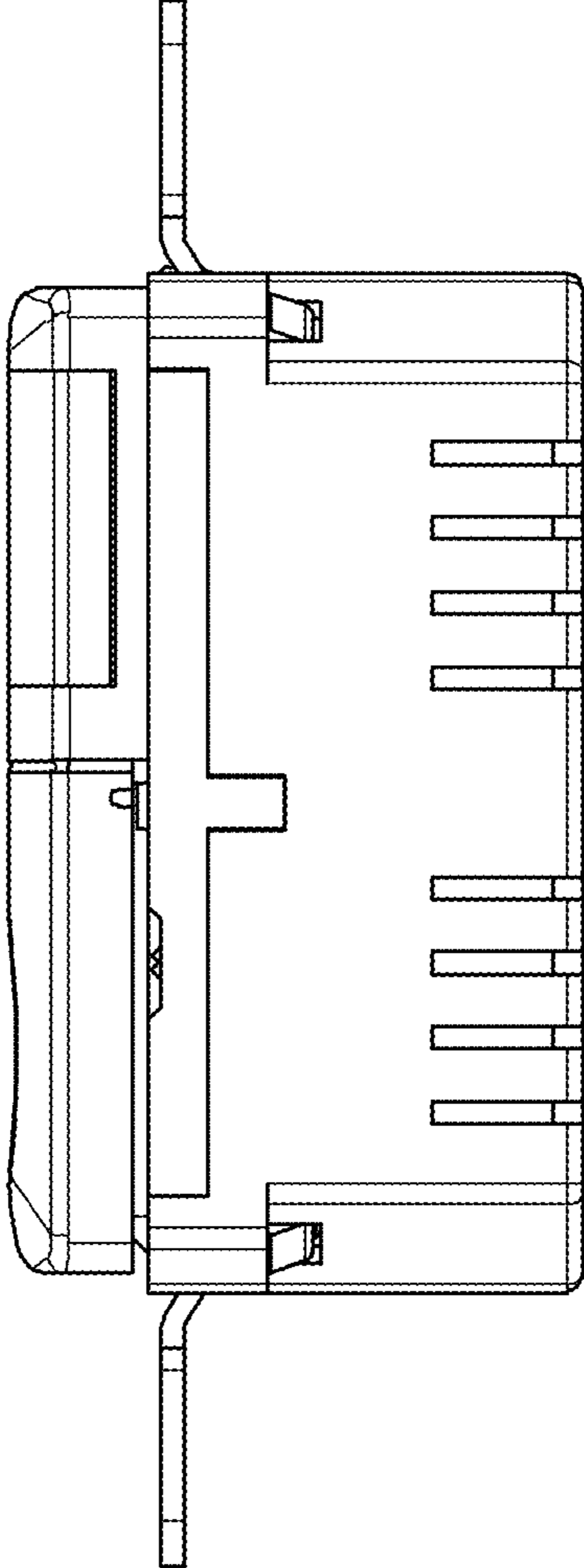


Figure 25

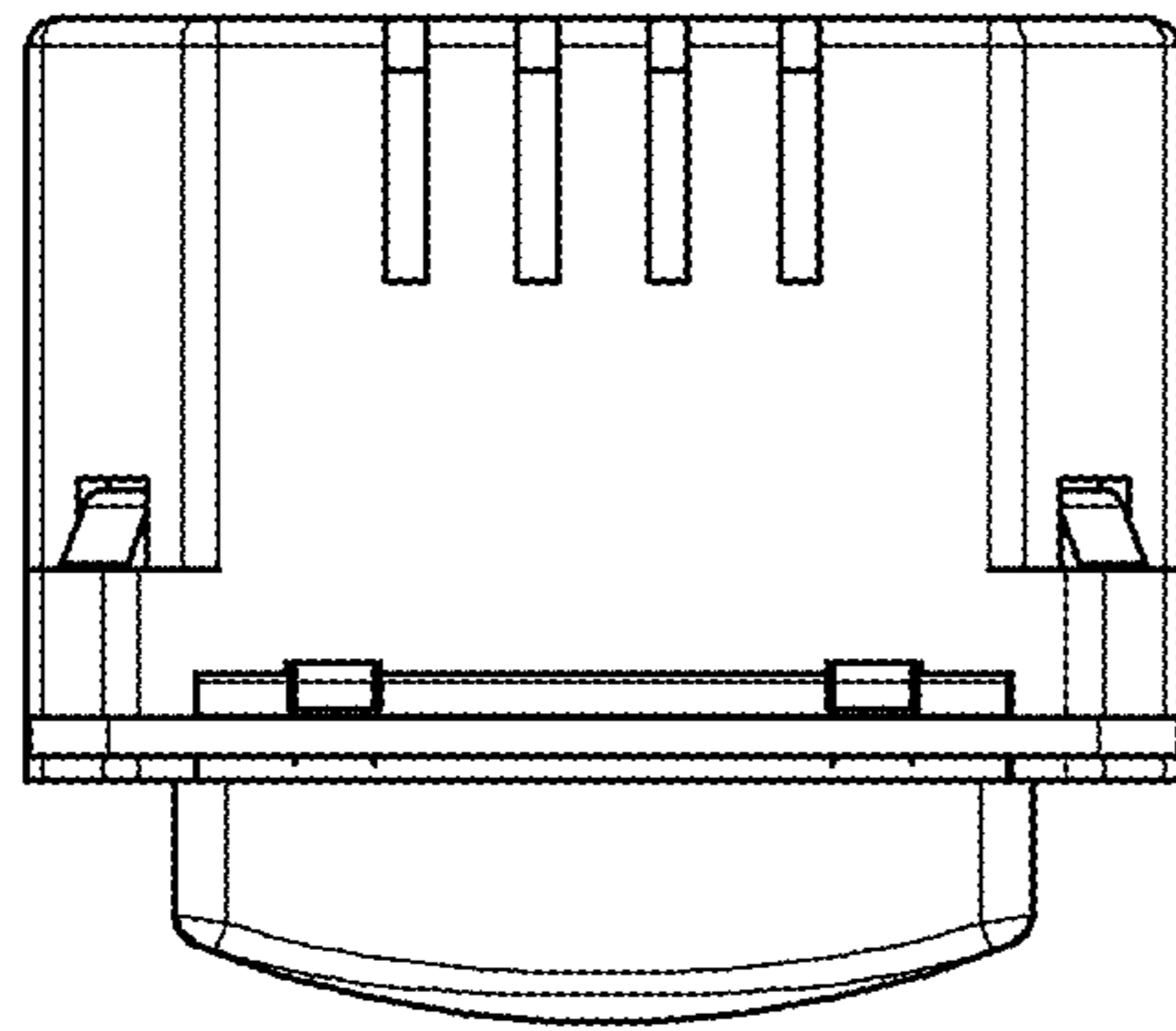


Figure 26

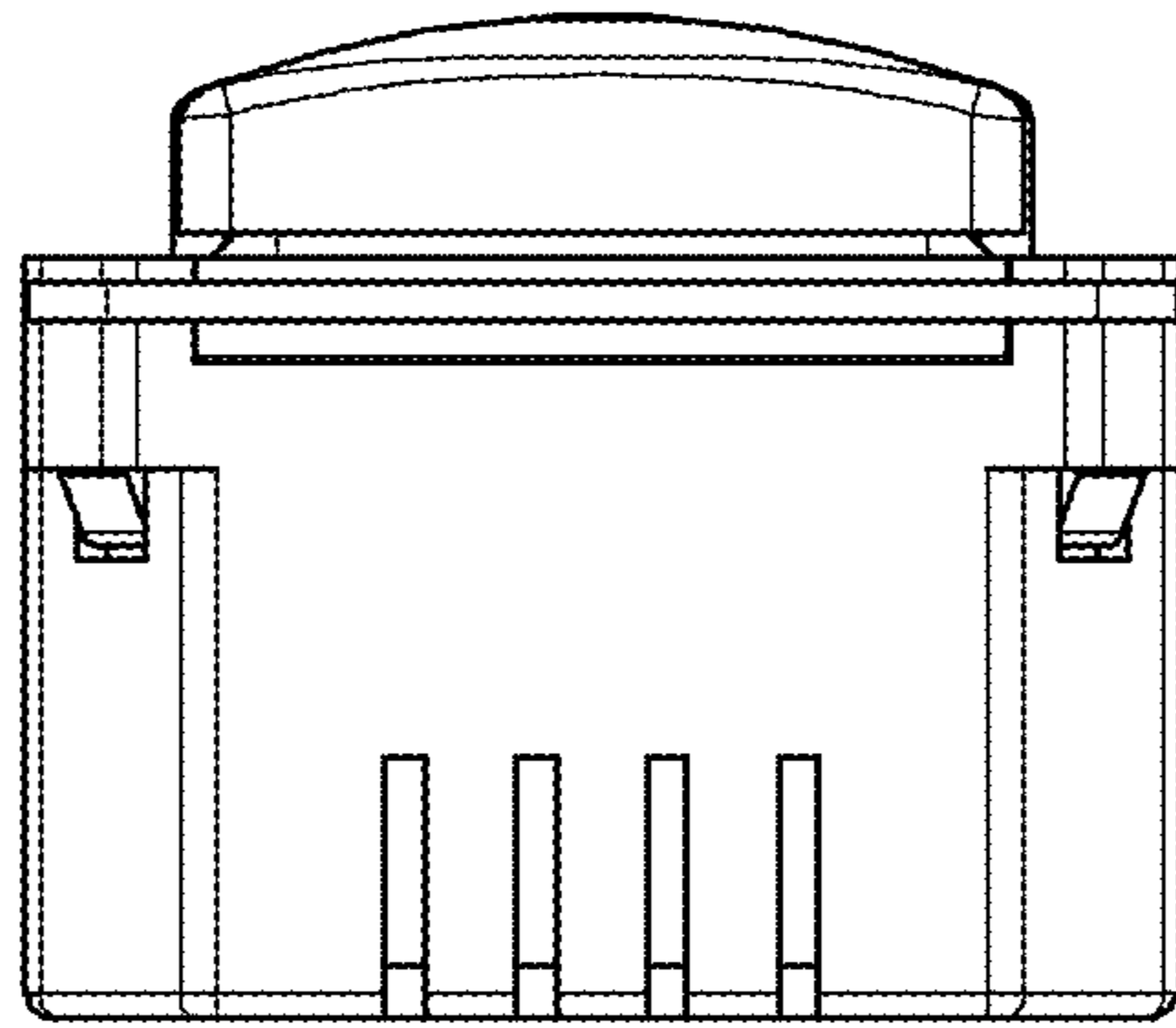


Figure 27

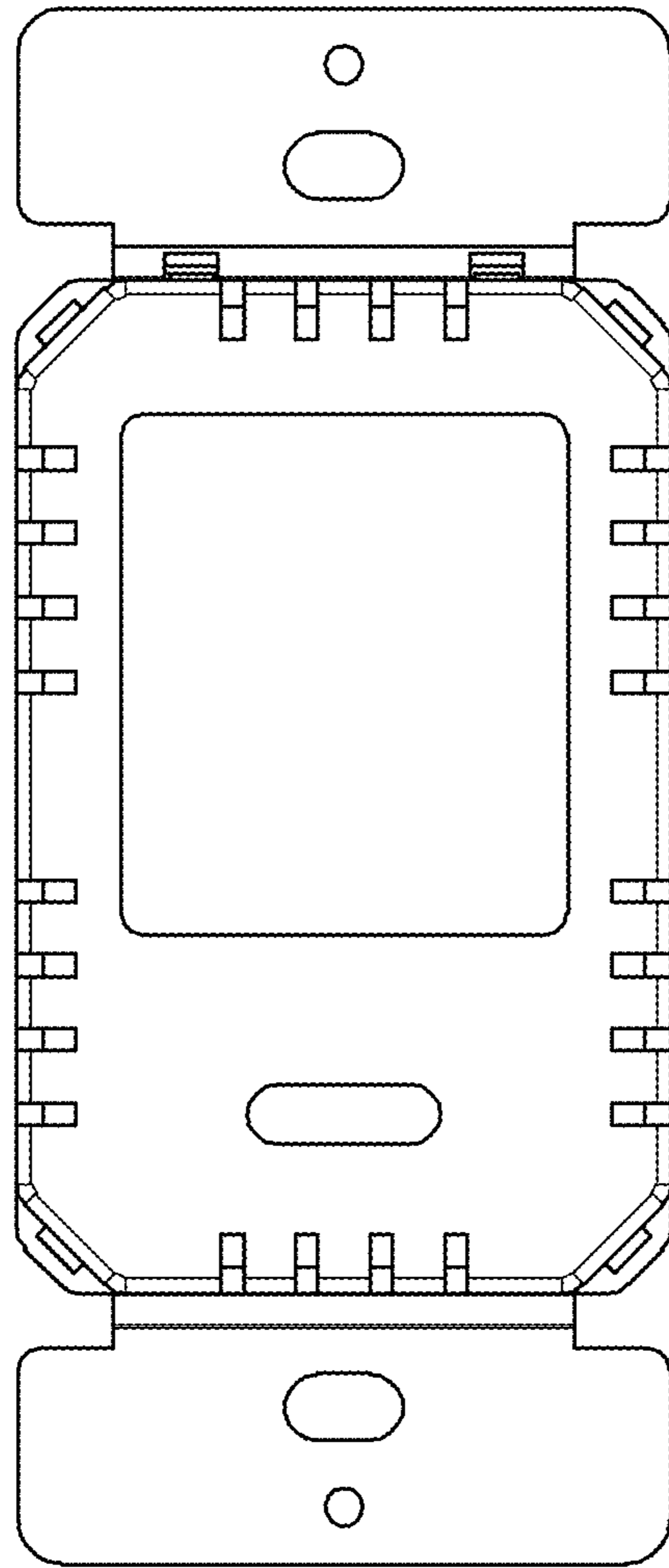


Figure 28