



US00D836145S

(12) **United States Design Patent** (10) **Patent No.:** **US D836,145 S**
Inoue et al. (45) **Date of Patent:** **** Dec. 18, 2018**

(54) **WIRE SPEED CONTROL UNIT FOR WELDING**

6,927,360 B2 * 8/2005 Artelsmair B23K 9/126
219/124.22

D569,884 S * 5/2008 Shu D15/144
D609,591 S * 2/2010 Oshima D10/96

(Continued)

(71) Applicant: **DAIHEN Corporation**, Osaka-shi,
Osaka (JP)

(72) Inventors: **Masahiro Inoue**, Osaka (JP); **Yukiya Morita**, Osaka (JP); **Hisao Miyahara**,
Osaka (JP)

(73) Assignee: **DAIHEN Corporation**, Osaka-shi,
Osaka (JP)

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

(21) Appl. No.: **29/596,321**

(22) Filed: **Mar. 7, 2017**

(30) **Foreign Application Priority Data**

Oct. 7, 2016 (JP) 2016-21971

(51) **LOC (11) Cl.** **15-09**

(52) **U.S. Cl.**
USPC **D15/144**

(58) **Field of Classification Search**
USPC D8/30; D10/49; D13/123, 133, 144;
D15/144, 144.1, 144.2, 199
CPC . B23K 9/095; B23K 9/10; B23K 9/12; B23K
9/124; B23K 9/125; B23K 9/126; B23K
9/127; B23K 9/133; B23K 9/1276; B23K
9/1336; B23K 9/173
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,880,305 A * 3/1959 Baird B23K 9/1336
219/137.31
D267,408 S * 12/1982 Lenhart D15/138
4,417,126 A * 11/1983 Kasahara B23K 9/127
219/124.22
5,130,514 A * 7/1992 Kugai B23K 9/127
219/124.34

FOREIGN PATENT DOCUMENTS

CN 302823666 * 5/2014
RU 00089409 * 7/2014

Primary Examiner — Susan Bennett Hattan

Assistant Examiner — Leanne Was-Englehart

(74) *Attorney, Agent, or Firm* — Edward J. Baba; Bret E.
Field; Bozicevic, Field & Francis LLP

(57) **CLAIM**

The ornamental design for wire speed control unit for welding, as shown and described.

DESCRIPTION

FIG. 1 is a front view of the wire speed control unit for welding.

FIG. 2 is a rear view of the wire speed control unit for welding.

FIG. 3 is a plan view of the wire speed control unit for welding.

FIG. 4 is a bottom view of the wire speed control unit for welding.

FIG. 5 is a right side view of the wire speed control unit for welding.

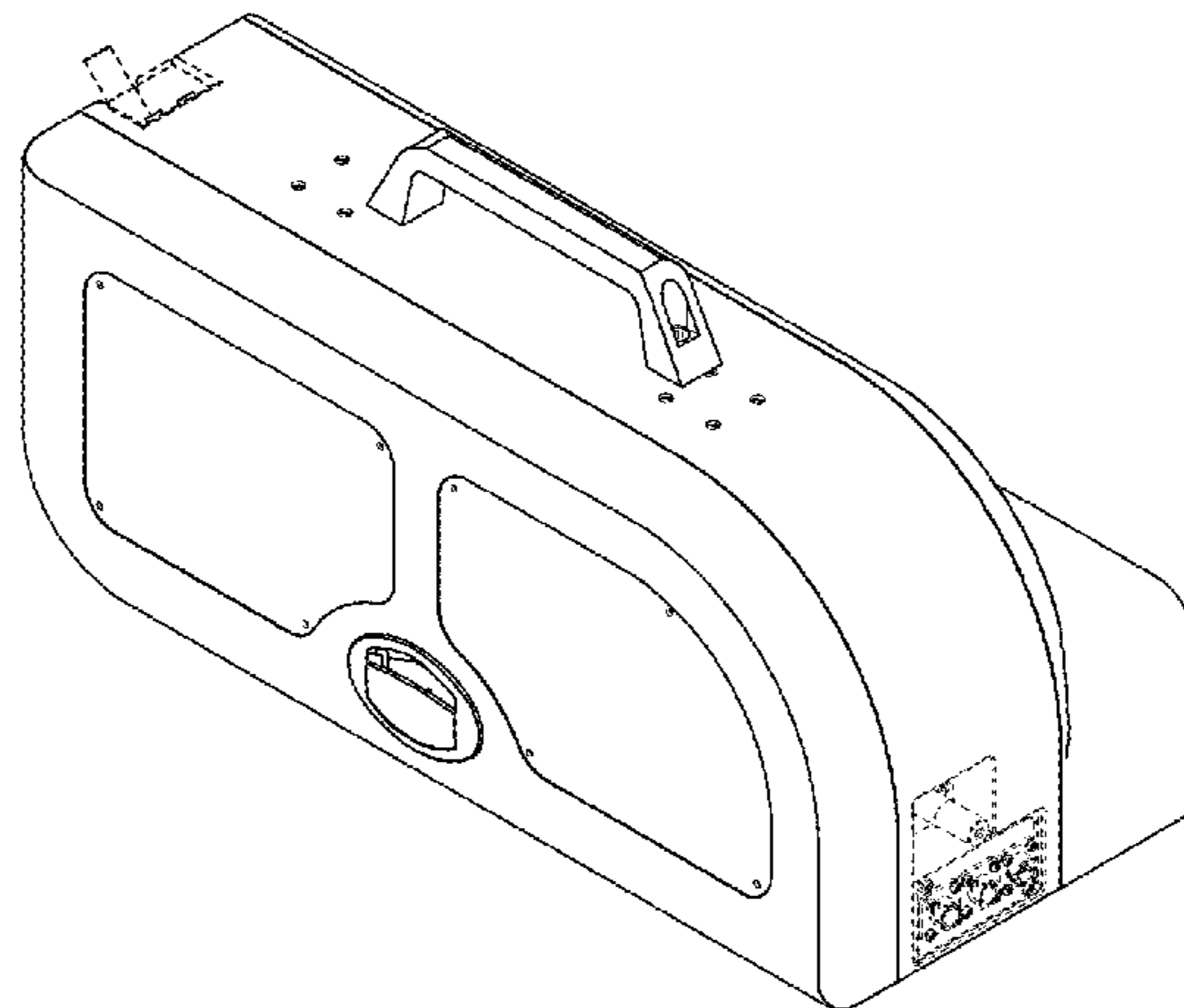
FIG. 6 is a left side view of the wire speed control unit for welding.

FIG. 7 is a first perspective view of the wire speed control unit for welding; and,

FIG. 8 is a second perspective view of the wire speed control unit for welding.

The broken lines in the drawings depict portions of the wire speed control unit for welding that form no part of the claimed design.

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D653,271 S * 1/2012 Kindig D15/144
D654,521 S * 2/2012 Flubacher D15/144
D665,833 S * 8/2012 Raymond D15/144
D679,738 S * 4/2013 Segala D15/144
D727,986 S * 4/2015 Matiash D15/144
D752,666 S * 3/2016 Ge D15/144
9,272,356 B2 * 3/2016 Era B23K 9/133
D775,250 S * 12/2016 Snead D15/144
D777,231 S * 1/2017 Ide D15/144
D778,331 S * 2/2017 Ide D15/144
D783,069 S * 4/2017 Fujii D15/144
D783,070 S * 4/2017 Fujii D15/144
D810,161 S * 2/2018 Snead D15/144
2010/0051595 A1 * 3/2010 Diedrick B23K 9/124
219/137 R
2011/0114613 A1 * 5/2011 Ihde B23K 9/133
219/136
2013/0253728 A1 * 9/2013 Stumpfl B23K 9/125
700/301

* cited by examiner

FIG. 1

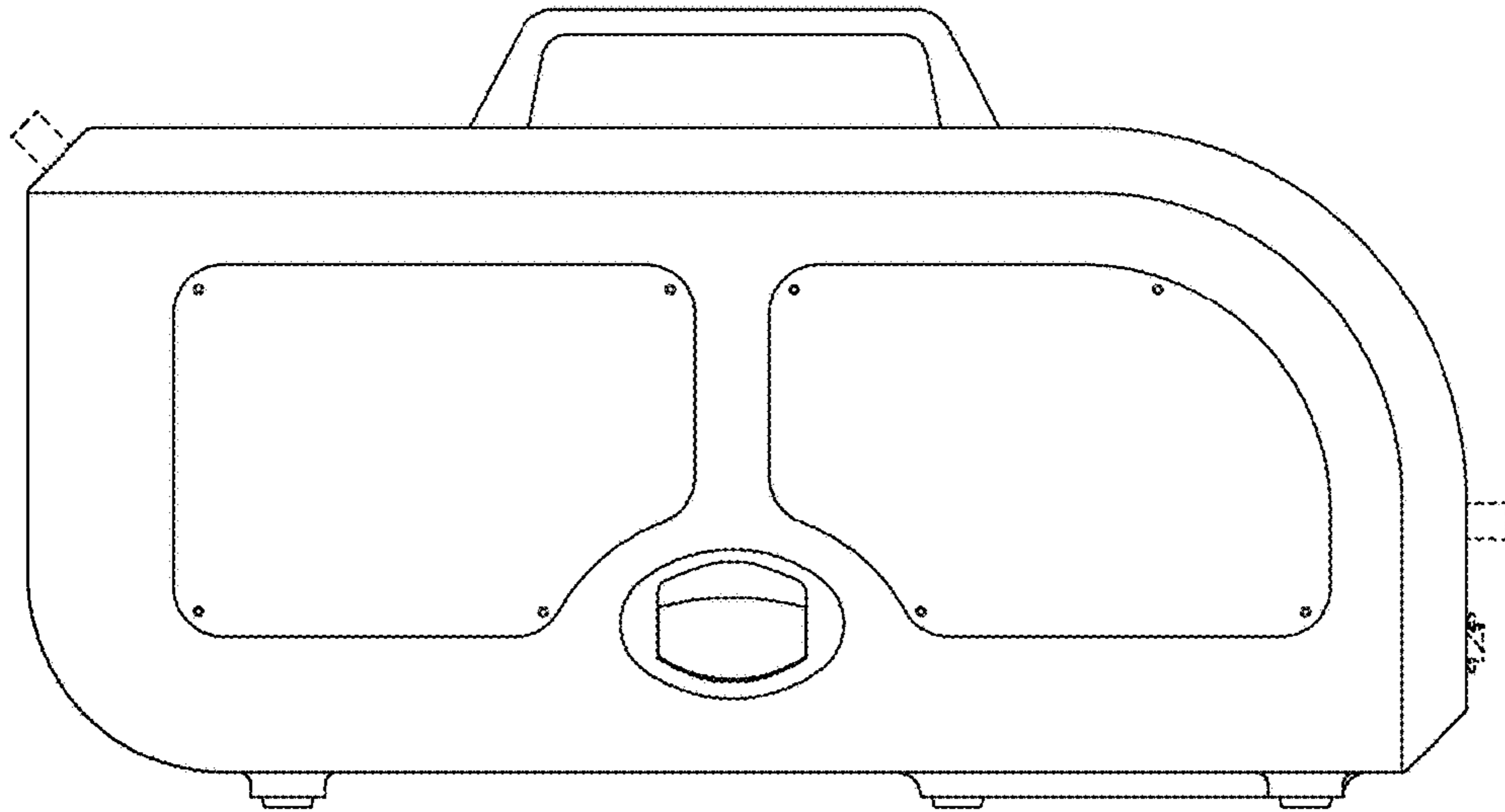


FIG. 2

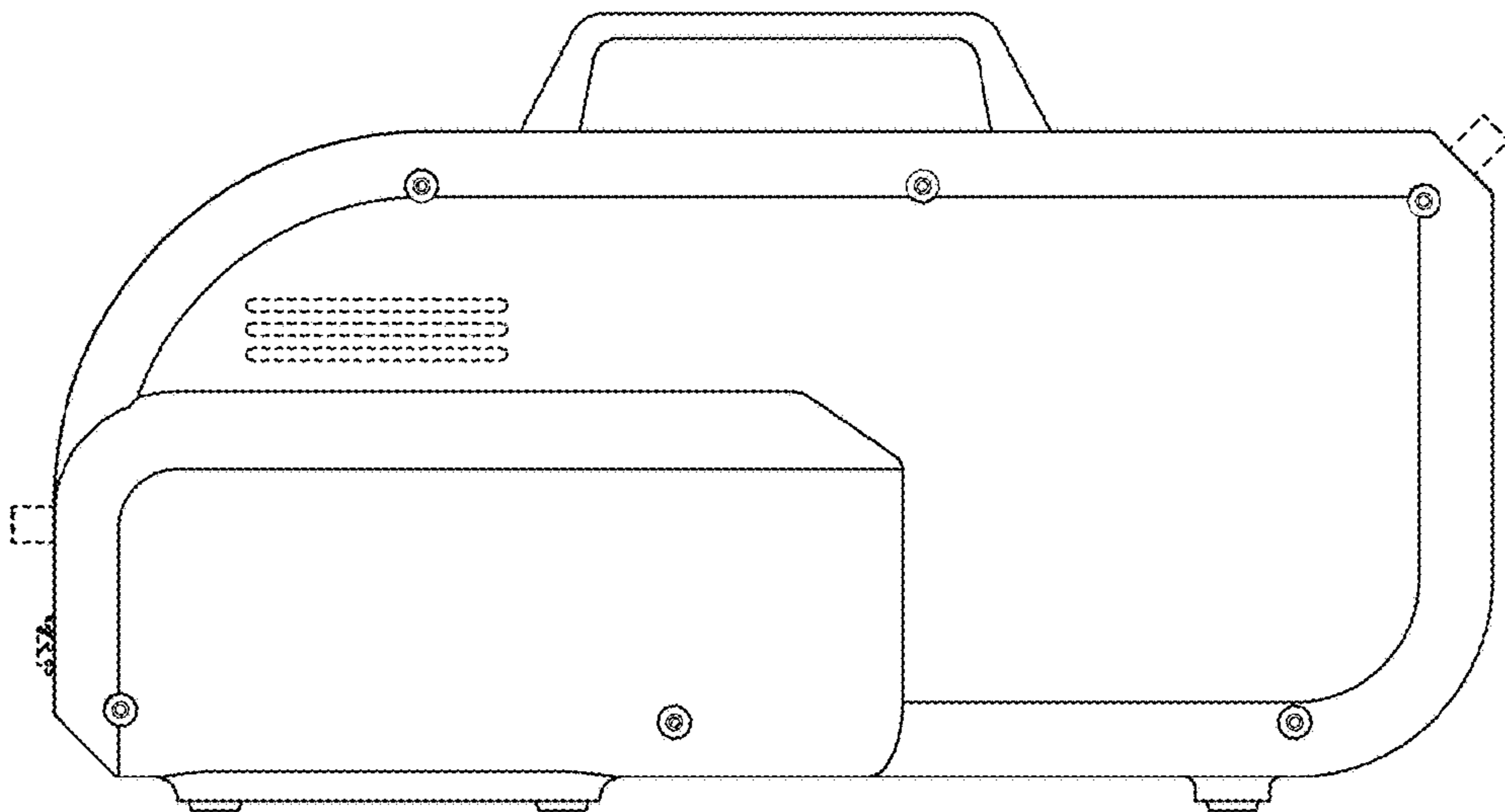


FIG. 3

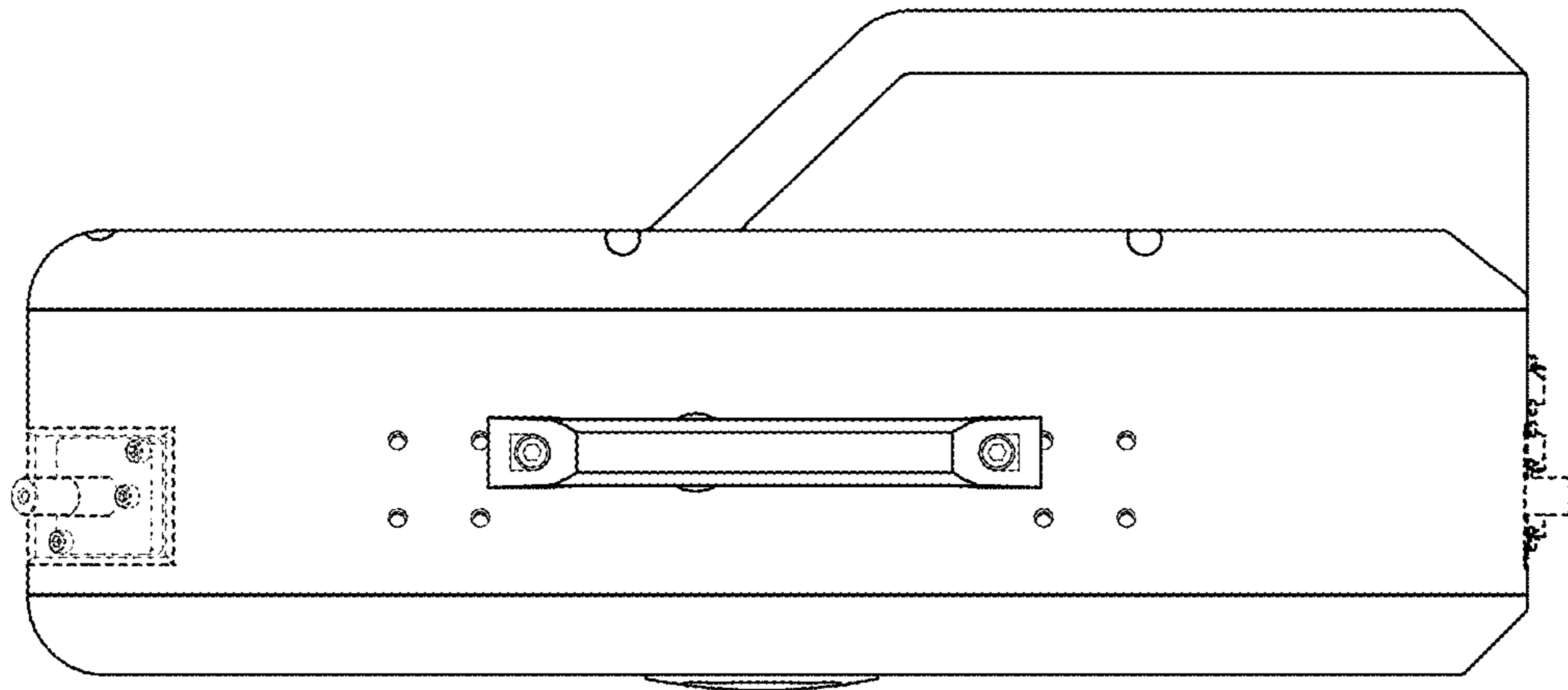


FIG. 4

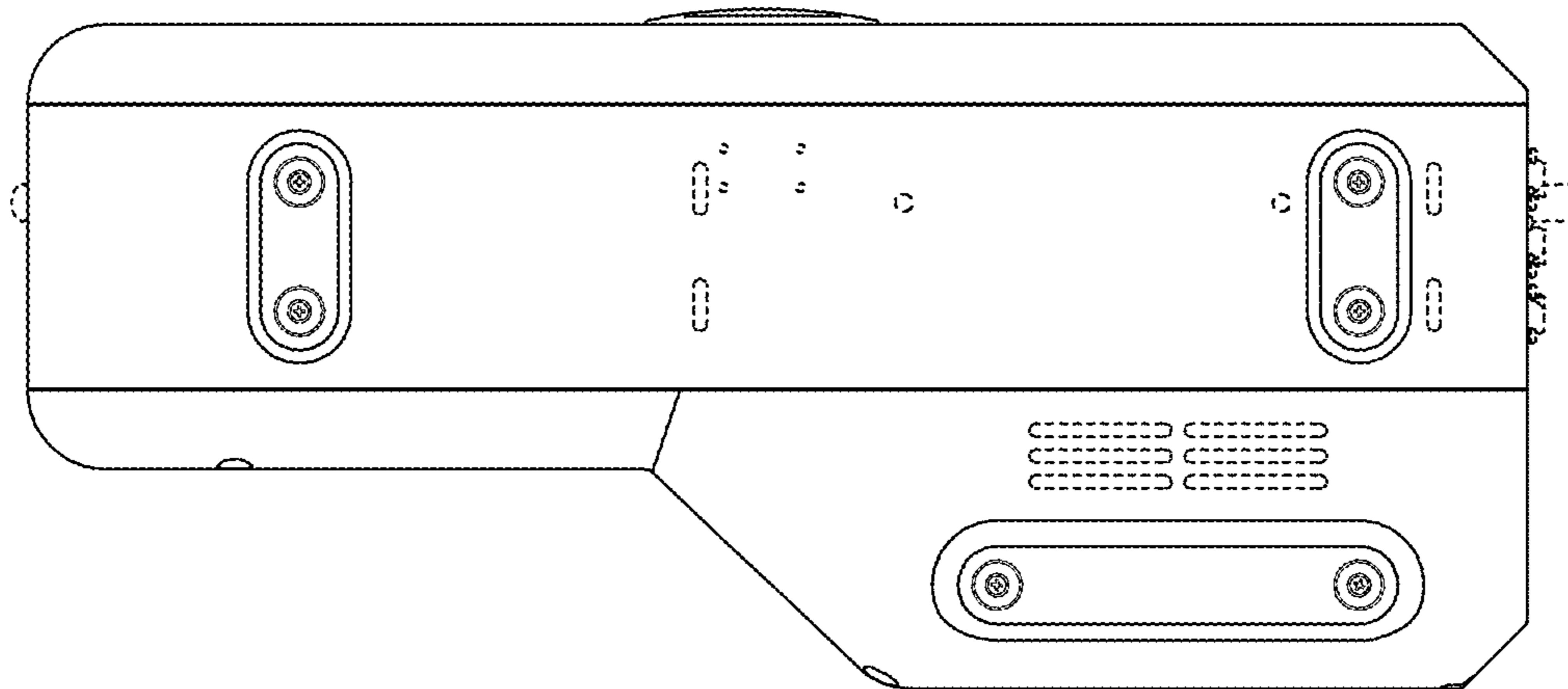


FIG. 5

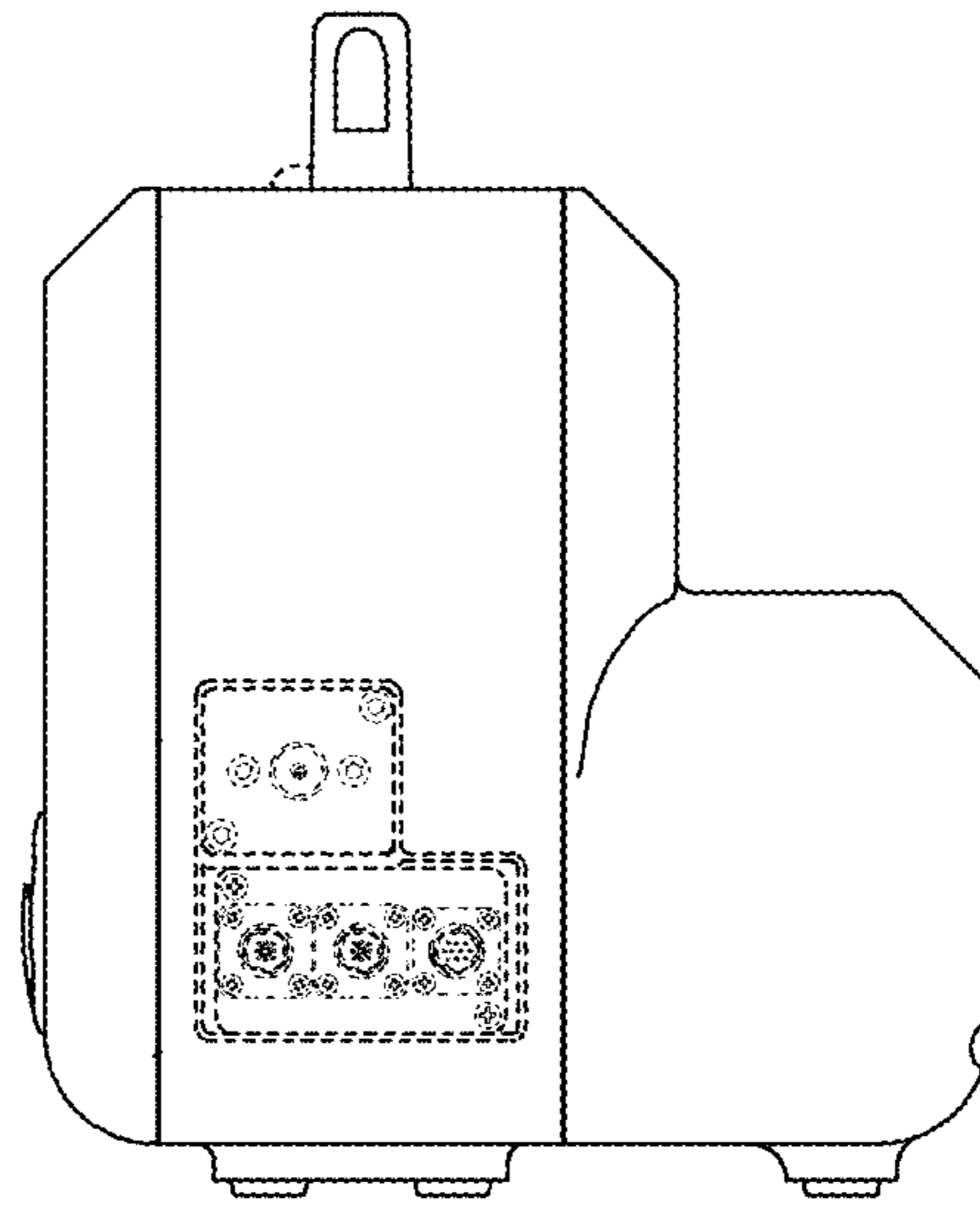


FIG. 6

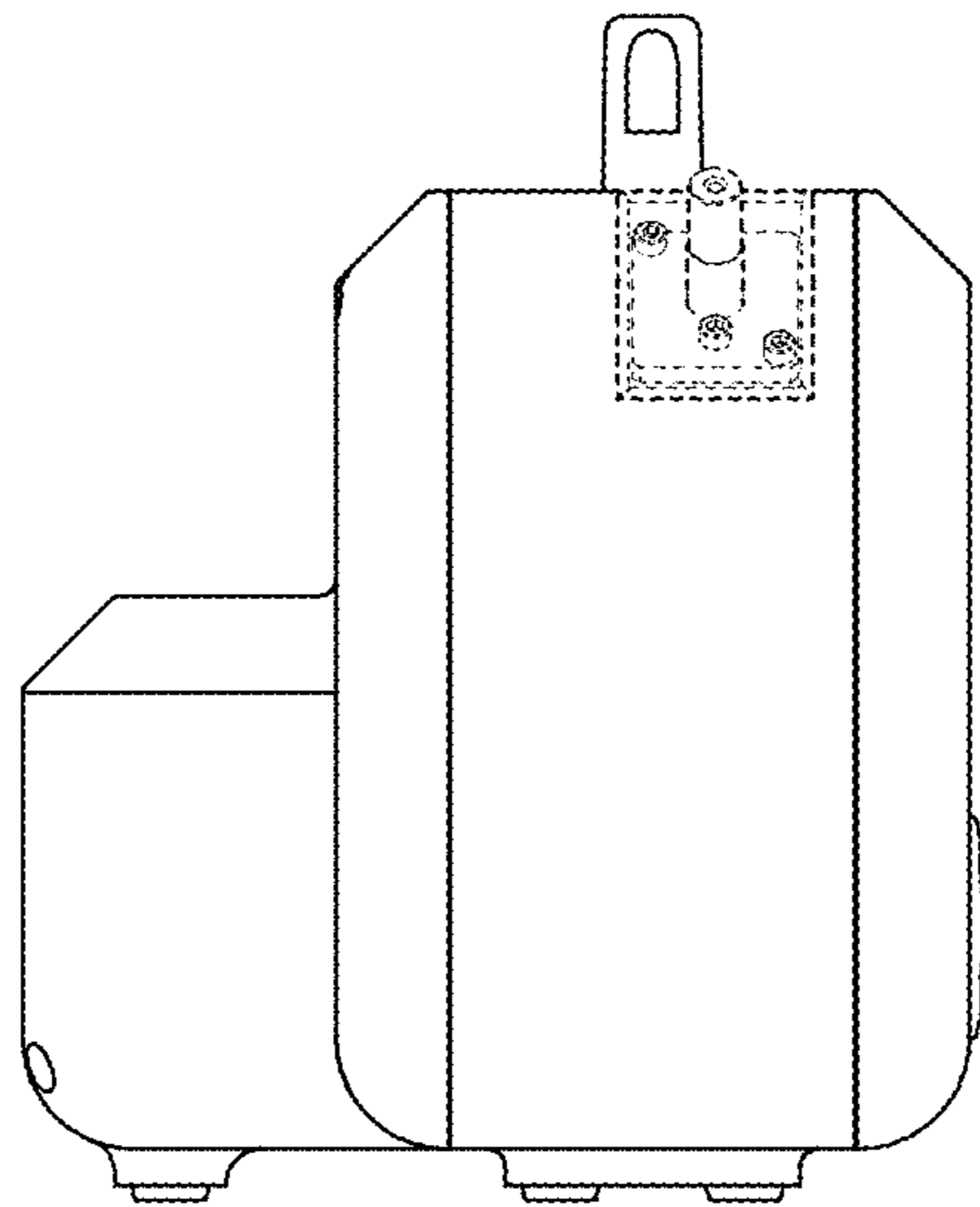


FIG. 7

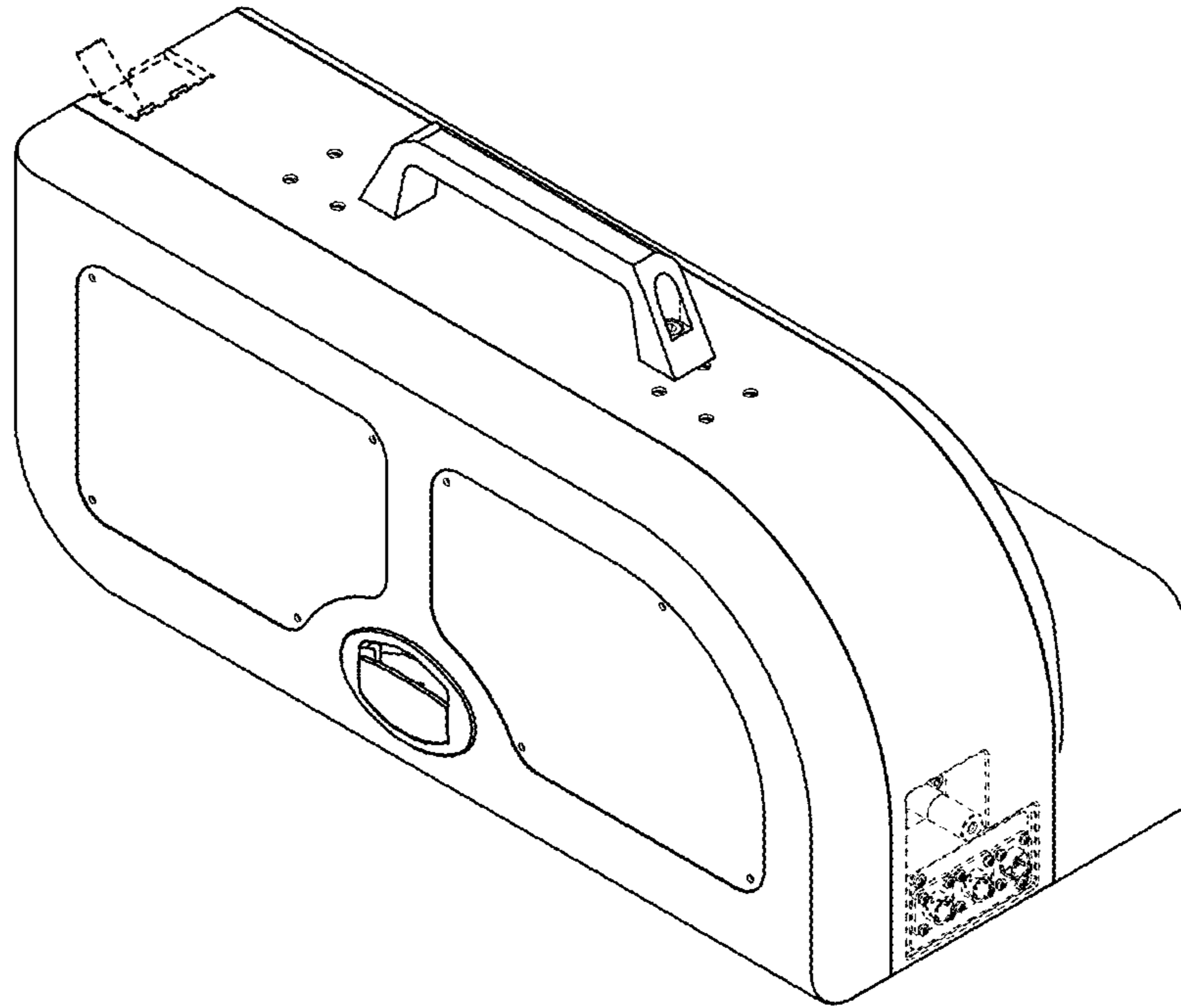


FIG. 8

