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

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(45) **Date of Patent: ** Mar. 8, 2022**

(54) **PORTABLE POWER ANALYZER**

(71) Applicant: **Fluke Corporation**, Everett, WA (US)
(72) Inventors: **Wei Liu**, Shanghai (CN); **Wei Huang**, Shanghai (CN)
(73) Assignee: **Fluke Corporation**, Everett, WA (US)

(**) Term: **15 Years**
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(52) **U.S. Cl.**
USPC **D10/78**
(58) **Field of Classification Search**
USPC D10/61, 62, 70–74, 85, 86, 106.91, D10/106.9, 106.4, 96–103, 104.1, 56
CPC H05K 7/20; H05K 5/0017; F28D 15/00; G01R 22/06; G01R 15/125; G01R 19/2509; G01R 13/02; G01R 1/04; G01R 1/00; G01R 15/18; G01R 1/22; G01R 15/181; G01R 1/44; G01R 22/10; G01R 22/063; G01R 22/061; G01D 11/24; G01D 4/002; G01D 4/008; G01D 4/04; G01D 18/008; H04Q 2209/40; G08C 17/02; G06Q 50/06; G06Q 20/145; H04L 67/16; H04L 67/12; H04L 67/303; G09G 2330/021; H04W 88/005; H04W 88/00; G05B 19/0426; G05B 2219/25428; G01K 15/00; G01K 15/005; G01N 7/14; G01N 7/16; G01N
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D457,444 S * 5/2002 Roelke D10/46
D460,925 S * 7/2002 Arnoux D10/78
(Continued)

FOREIGN PATENT DOCUMENTS

CN 303530346 * 6/2015
CN 304594177 * 10/2017
(Continued)

OTHER PUBLICATIONS

Fluke Store, 3540 FC Kit Three-Phase Power Monitor & Condition Monitoring Kit, Date first available May 13, 2018, [online] retrieved Oct. 18, 2021,available from https://www.amazon.com/FLUKE-3540-FC-KIT-Three-Phase-Monitoring/dp/B07D2FHM9M/ref=psdc_5011670011_t1_B00AQKI4AC (Year: 2018).*
(Continued)

Primary Examiner — Keli L Hill
Assistant Examiner — Sara S Sahneh
(74) *Attorney, Agent, or Firm* — Seed Intellectual Property Law Group LLP

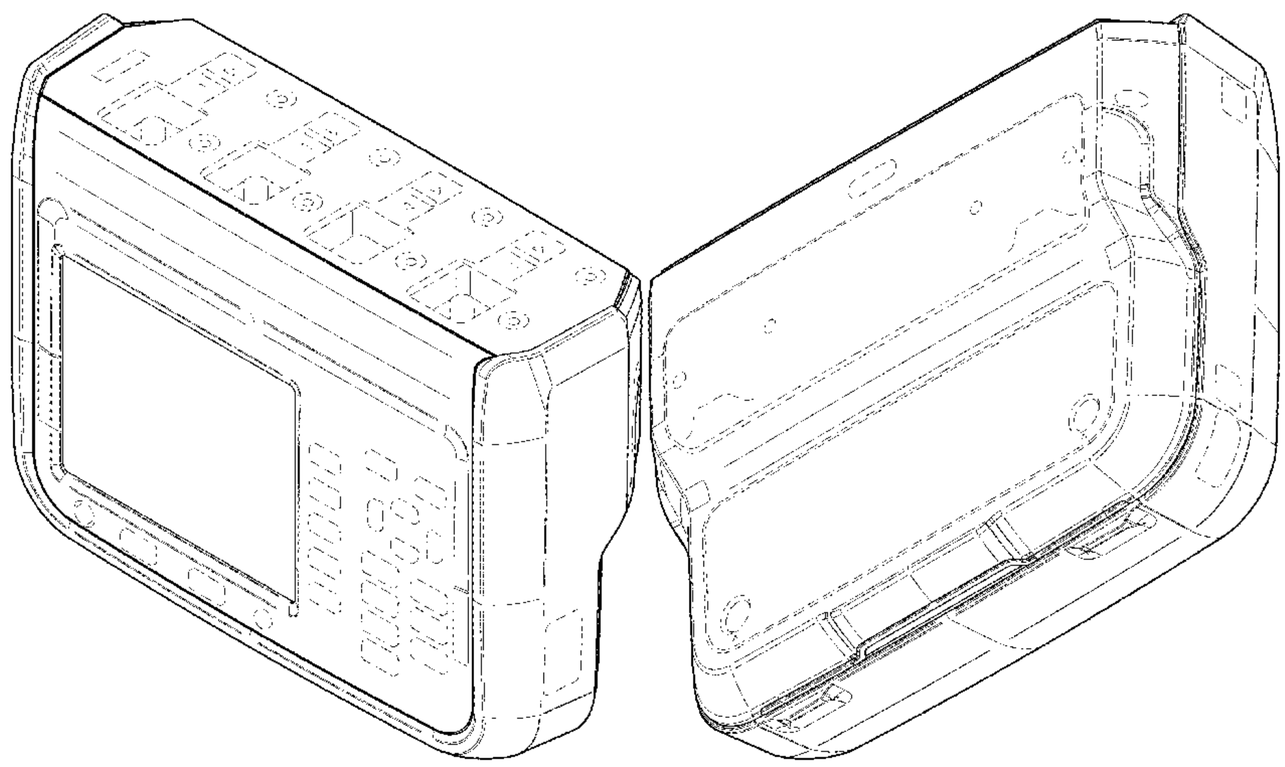
(57) **CLAIM**

The ornamental design for a portable power analyzer, as shown and described.

DESCRIPTION

FIG. **1** is a top, front, right perspective view of a portable power analyzer showing my new design.
FIG. **2** is a bottom, rear, left perspective view thereof.
FIG. **3** is a front elevation view thereof.
FIG. **4** is a top plan view thereof.
FIG. **5** is a right side elevation view thereof.
FIG. **6** is a left side elevation view thereof.
FIG. **7** is a rear elevation view thereof; and,
FIG. **8** is a bottom plan view thereof.
The broken lines shown are included for the purpose of illustrating portions of the portable power analyzer that form no part of the claimed design.

1 Claim, 8 Drawing Sheets



(58) **Field of Classification Search**
CPC .. 7/18; G01N 7/20; G01N 7/22; G01N 25/56; G01N 27/122; G01N 33/004–0075; H04B 17/23
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D649,893	S	*	12/2011	Beeke	D10/78
D660,190	S	*	5/2012	Laurino	D10/78
D698,447	S	*	1/2014	Marzynski	D24/186
D699,362	S	*	2/2014	Corrigan	D24/186
D745,172	S	*	12/2015	Marzynski	D24/186
D765,258	S	*	8/2016	Marzynski	D24/186
D806,881	S	*	1/2018	Corrigan	D24/186
D864,771	S	*	10/2019	Corrigan	D10/75
D891,957	S	*	8/2020	Bannister	D10/78
2018/0188346	A1	*	7/2018	Salem	G06Q 30/04
2019/0339312	A1	*	11/2019	Dunn	G01R 22/10

FOREIGN PATENT DOCUMENTS

CN	304805516	*	1/2018
CN	304956934	*	8/2018
CN	305417964	*	4/2019
CN	306510554	*	11/2020
JP	D1490516	*	6/2013

OTHER PUBLICATIONS

Lutron, 3 Phase Power Analyzer, Date first available Jul. 29, 2015, [online]retrieved Oct. 18, 2021,available from https://www.amazon.com/dp/B012UVRXTW/ref=sspa_dk_detail_3?psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUExSkdWNIdFNFZWV1o3JmVuY3J5cHRIZEIkPUEwOTEyMDE2MVREWEI3NTI3QjNINiZlbmNyeXB0ZWRBZEIkPUExMDQ2NTg4NTE (Year: 2015).*

Fluke Store,1735 3-Phase Power Logger, Date first available Sep. 5, 2007, [online]retrieved Oct. 18, 2021,available from https://www.amazon.com/Fluke-1735-3-Phase-Power-Logger/dp/B000VRCSF2/ref=sr_1_8?dchild=1&keywords=Fluke%2Bthree-Phase%2BPower%2BQuality&qid=1634585170&s=hi&sr=1-8&th=1 (Year: 2007).*

Fluke Store,437-II 3 Phase Power Qualityand Energy Analyzer with Clamp, Date first available Apr. 4, 2013, [online]retrieved Oct. 18, 2021,available from https://www.amazon.com/Fluke-Analyzer-Accuracy-Resolution-Frequency/dp/B00AVWEZYY/ref=sr_1_32?dchild=1&keywords=Fluke%2Bthree-Phase%2BPower%2BQuality&qi (Year: 2013).*

* cited by examiner

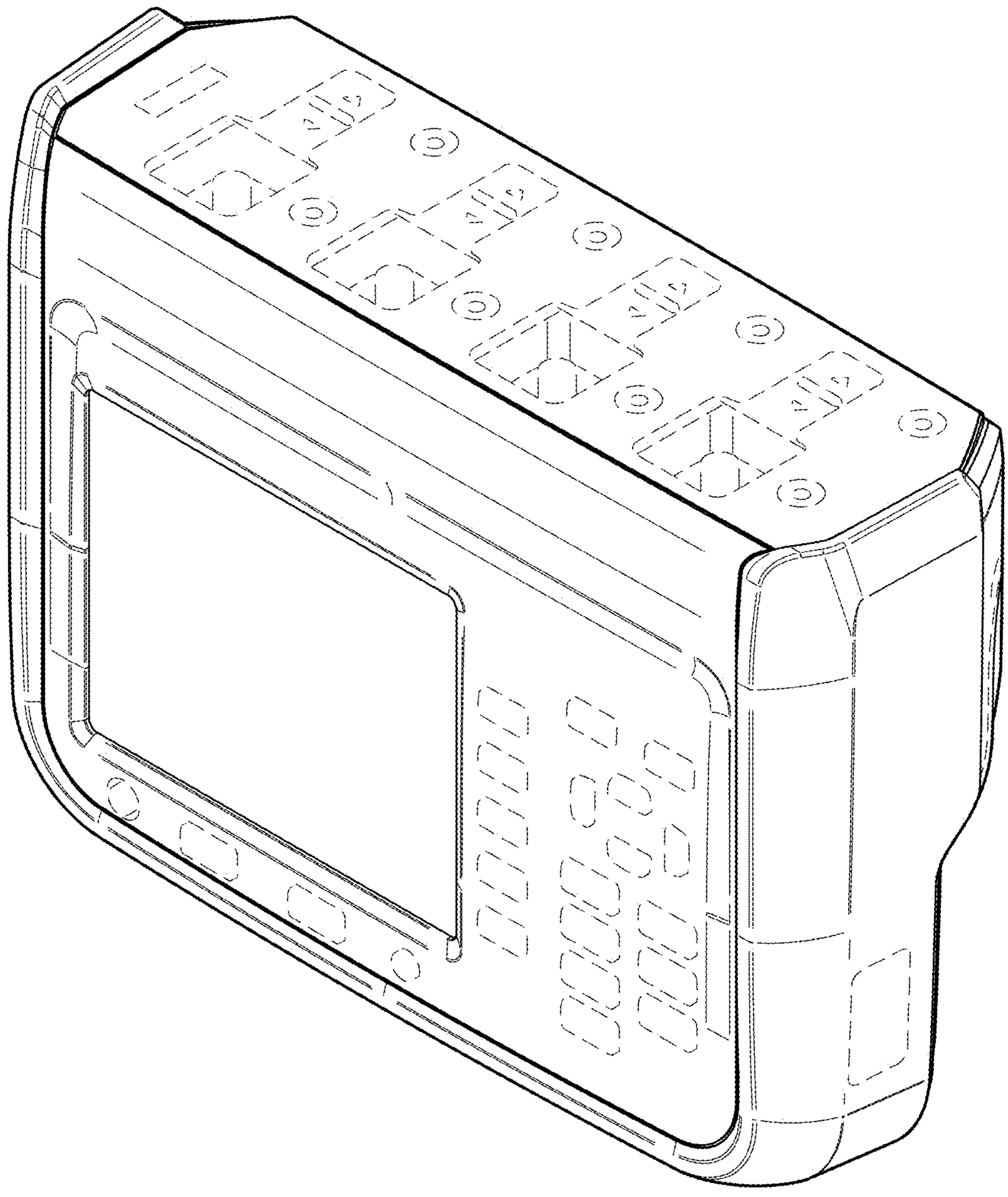


FIG. 1

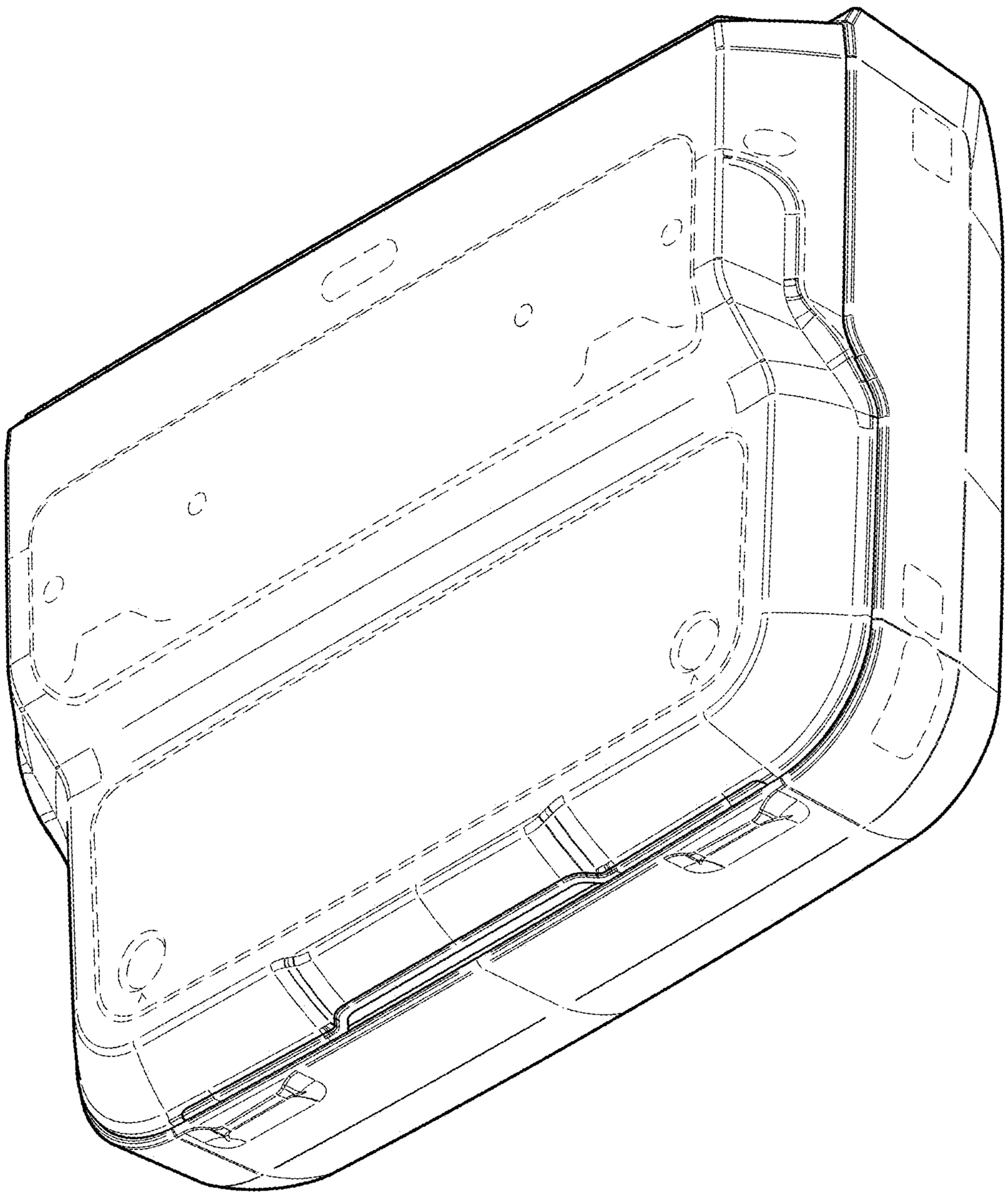


FIG. 2

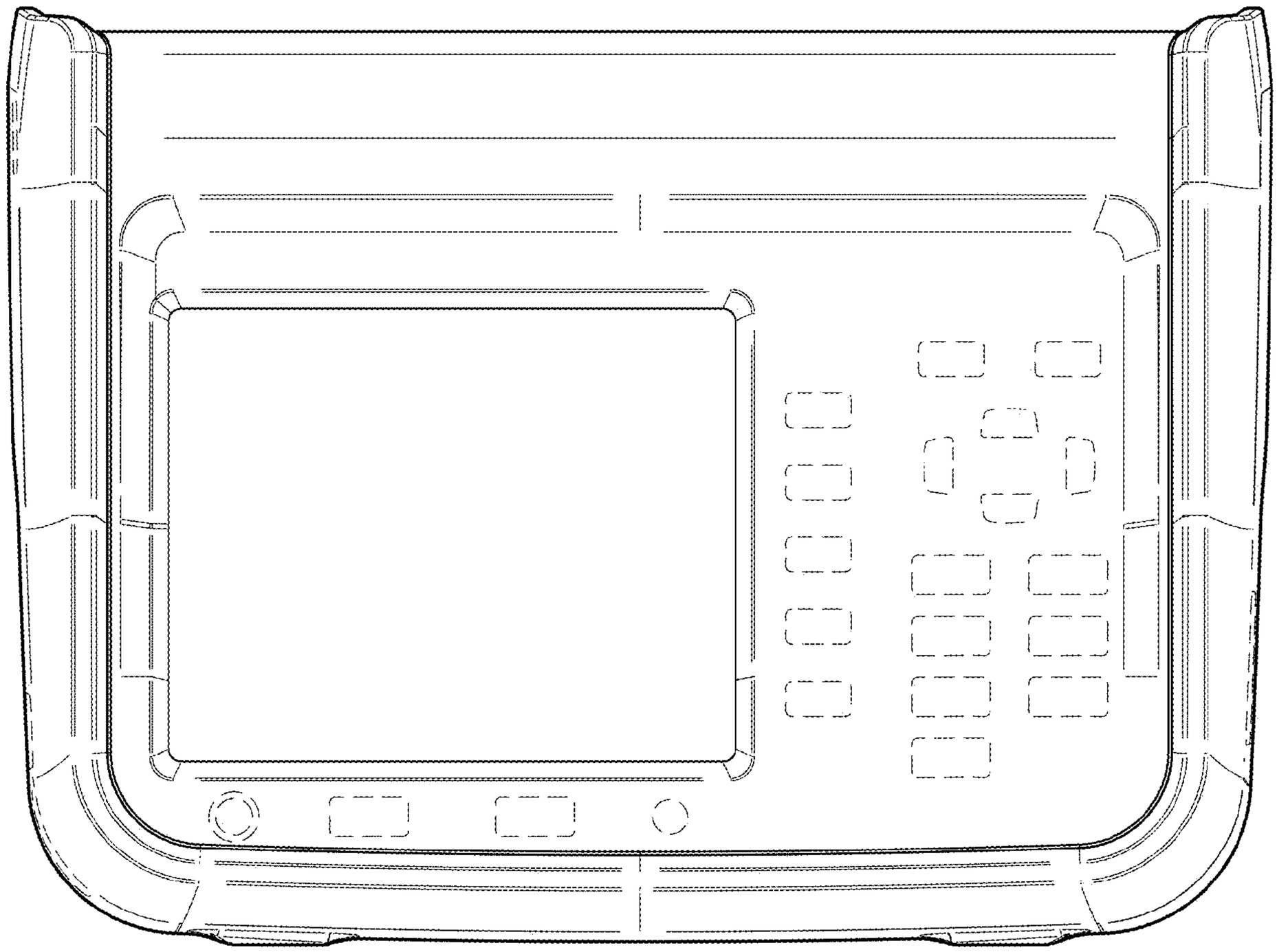


FIG. 3

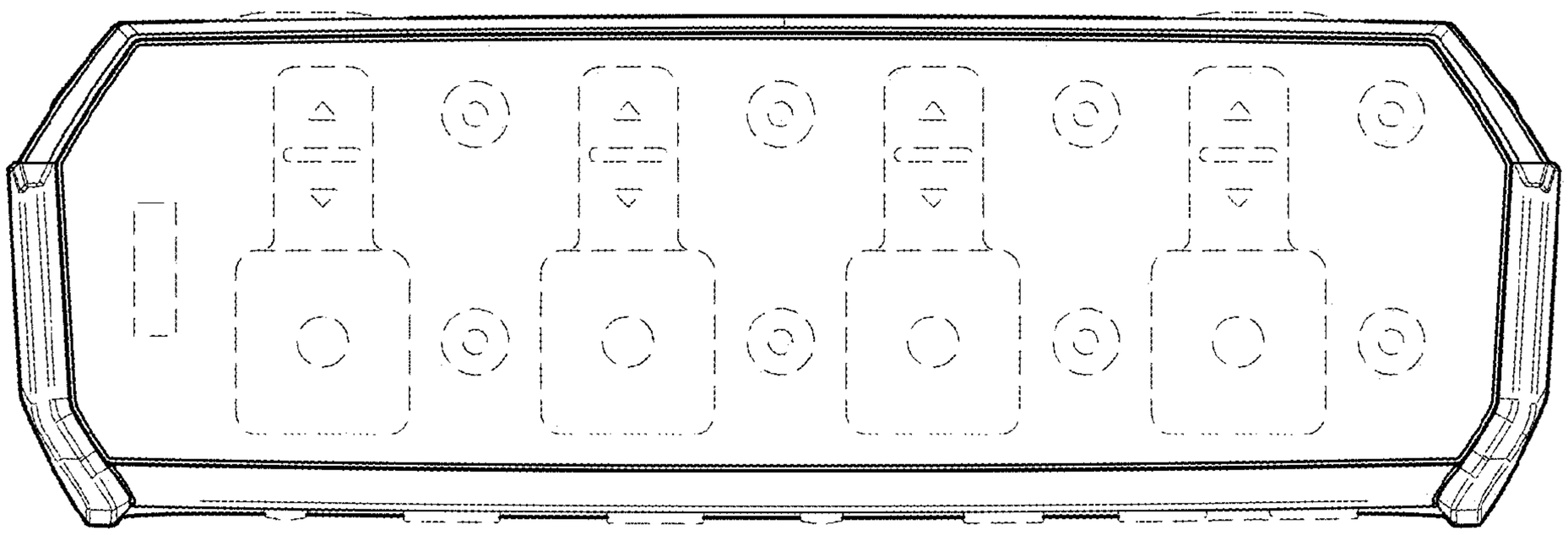


FIG. 4

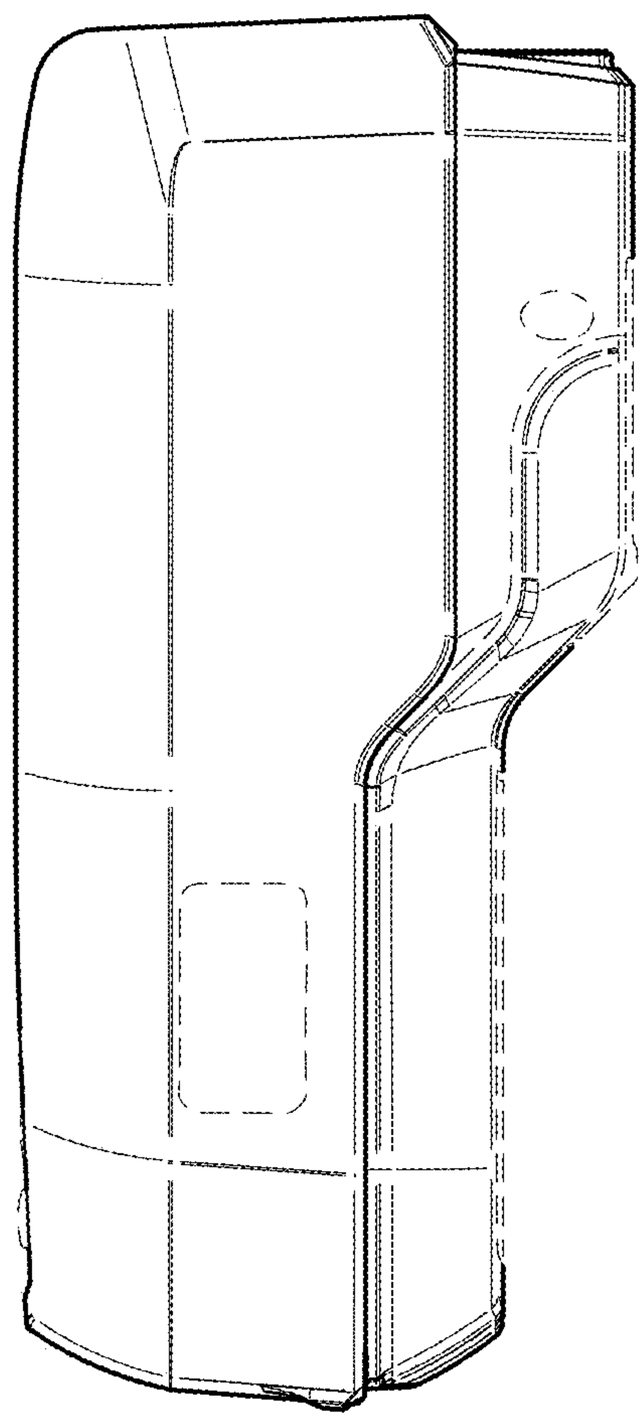


FIG 5

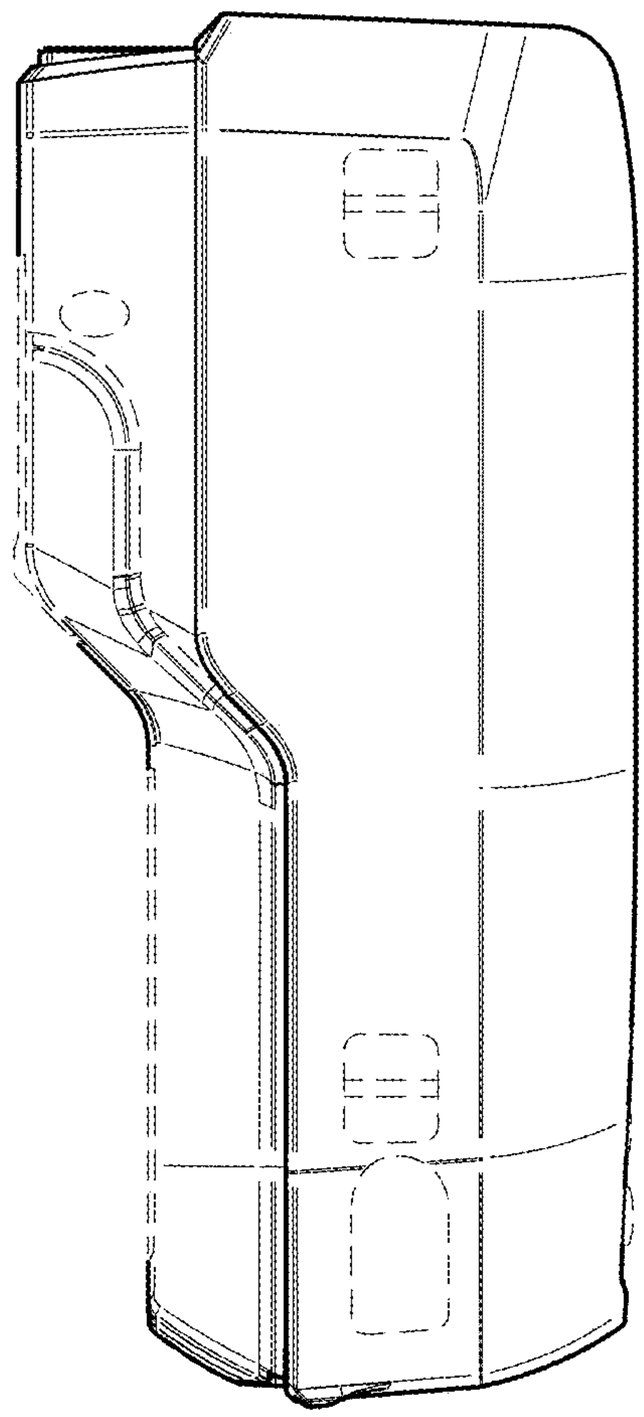


FIG. 6

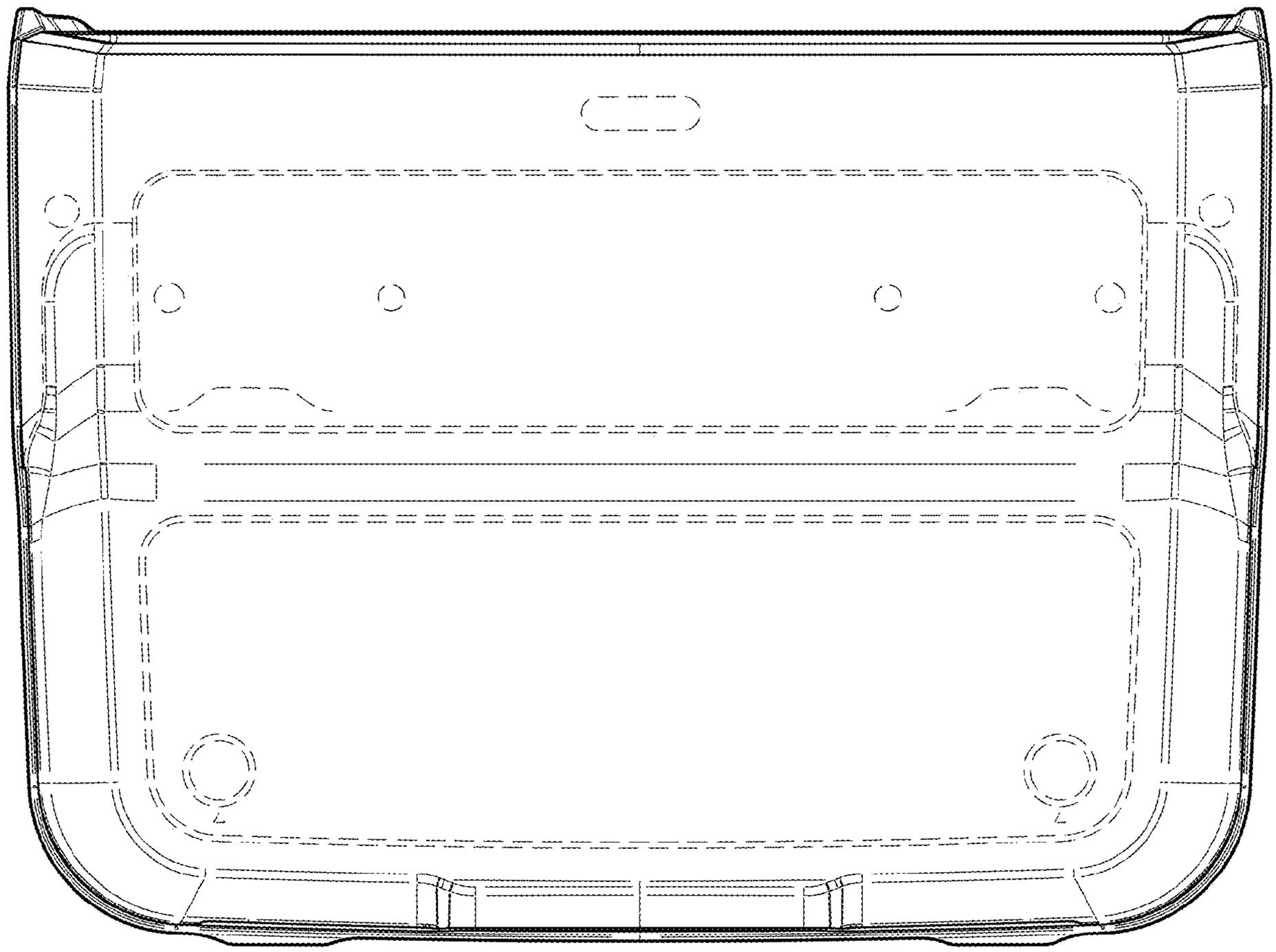


FIG. 7

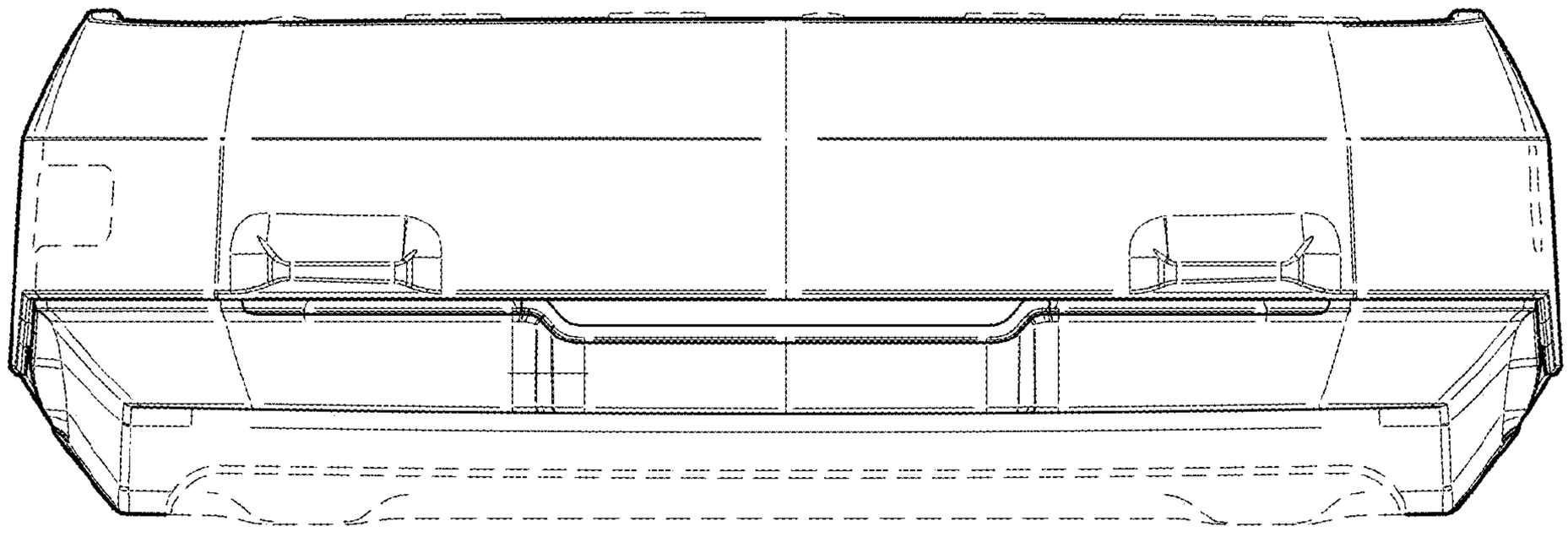


FIG. 8