

(12) **United States Design Patent**
Wang

(10) **Patent No.:** **US D1,067,866 S**

(45) **Date of Patent:** **** Mar. 25, 2025**

(54) **BATTERY CHARGER**

(71) Applicant: **Jie Wang**, Anhui (CN)

(72) Inventor: **Jie Wang**, Anhui (CN)

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

(21) Appl. No.: **29/963,275**

(22) Filed: **Sep. 16, 2024**

(51) **LOC (15) Cl.** **13-02**

(52) **U.S. Cl.**
USPC **D13/107**

(58) **Field of Classification Search**
USPC D13/102, 103, 104, 105, 106, 107, 108,
D13/109, 110, 112, 118, 119, 122, 184,
D13/199
CPC .. H02J 50/00; H02J 50/10; H02J 50/12; H02J
50/80; H02J 7/025; H02J 7/005; H02J
7/02; H02J 7/0026; H02J 7/0042; H02J
7/0044; H02J 7/0045; H02J 7/0013; H02J
7/0003; H01M 50/247; H01M 2220/30
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D617,267 S	*	6/2010	Li	.....	D13/107
D654,854 S	*	2/2012	Inskeep	.....	D13/107
D694,180 S	*	11/2013	Inskeep	.....	D13/107
D803,151 S	*	11/2017	Zhou	.....	D13/107
D814,406 S	*	4/2018	Yang	.....	D13/107
D814,407 S	*	4/2018	Yang	.....	D13/107
D814,408 S	*	4/2018	Yang	.....	D13/107
D816,024 S	*	4/2018	Yang	.....	D13/107
D896,749 S	*	9/2020	Wu	.....	D13/107
D960,827 S	*	8/2022	Wu	.....	D13/107
D1,015,267 S	*	2/2024	Huang	.....	D13/107
D1,021,772 S		4/2024	Underhill et al.		
D1,026,804 S	*	5/2024	Lou	.....	D13/133
D1,027,828 S		5/2024	Yan		

D1,032,505 S	6/2024	Yan
D1,034,441 S	7/2024	Lou et al.
D1,036,372 S	7/2024	Xie
D1,038,009 S	8/2024	Kawase et al.
D1,038,011 S	8/2024	Kobayashi et al.
(Continued)		

FOREIGN PATENT DOCUMENTS

CN	308716092	*	7/2024
EM	015037361-0001	*	10/2023
GB	6393780	*	10/2024

OTHER PUBLICATIONS

“Intelligent Automatic Battery Charger”, first accessed Nov. 5, 2024. KingTony.com [https://www.kingtony.com/product/Intelligent-Automatic-Battery-Charger-9DS31] (Year: 2024).*

(Continued)

Primary Examiner — Rosemary K Tarcza
Assistant Examiner — Seth David Kumpf

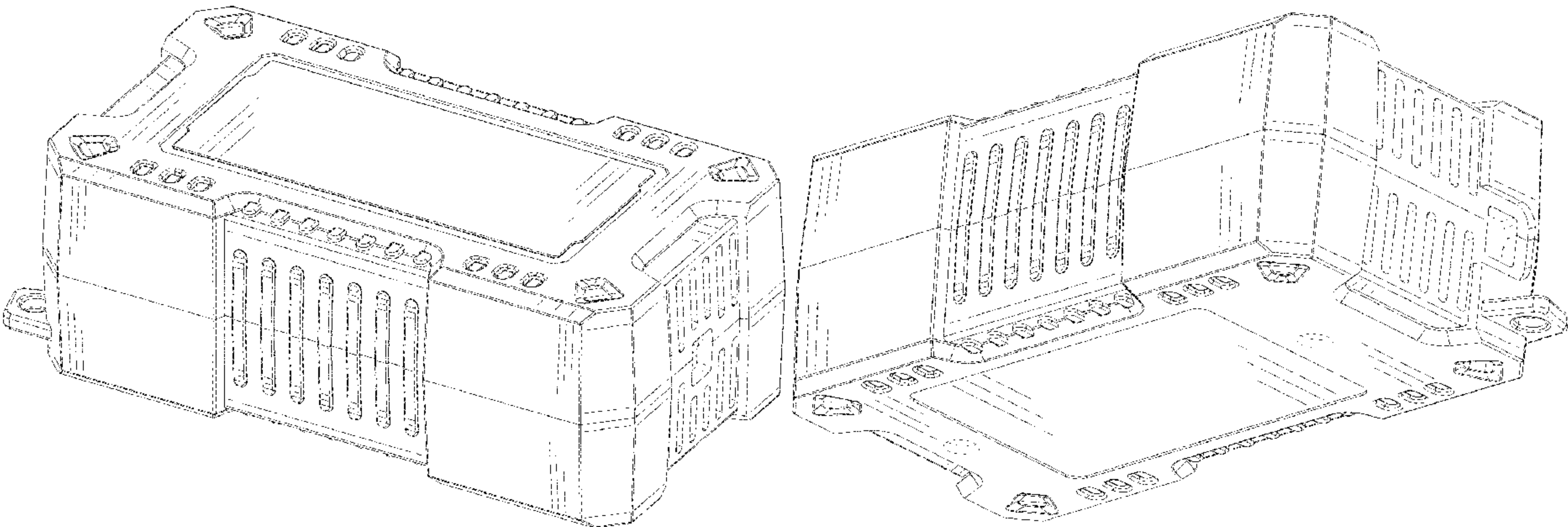
(57) **CLAIM**

The ornamental design for a battery charger, as shown and described.

DESCRIPTION

FIG. 1 is a front, top and left-side perspective view of the battery charger showing my new design;
FIG. 2 is a front elevation view thereof;
FIG. 3 is a rear elevation view thereof;
FIG. 4 is a left side elevation view thereof;
FIG. 5 is a right side elevation view thereof;
FIG. 6 is a top plan view thereof;
FIG. 7 is a bottom plan view thereof; and,
FIG. 8 is a back, bottom and right-side perspective view thereof.
The broken lines throughout the drawing figures depict portions of the battery charger that form no part of the claimed design.

1 Claim, 8 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

D1,038,872 S * 8/2024 Wu D13/108
D1,039,481 S 8/2024 McConnell et al.

OTHER PUBLICATIONS

“15 AMP Automatic Smart Lithium and AGM Car Battery Charger & Maintainer”, first accessed Nov. 5, 2024. ExtremeSoundz.us [https://extremesoundz.us/product/15-amp-automatic-smart-lithium-and-agm-car-battery-charger-maintainer-2/] (Year: 2024).*

“Yonhan Battery Charger 10-Amp 12V and 24V Fully-Automatic Smart Car Battery Charger, Battery Maintainer Trickle Charger, and Battery Desulfator with Temperature Compensation”, first available Jun. 17, 2021. Amazon.com [https://www.amazon.com/dp/B097D397M6/] (Year: 2021).*

“Nexpeak NC215 15-Amp Battery Charger, 12V 24V LiFePO4 Lead Acid Portable Car Battery Charger 9-Stage Trickle Charger Smart Battery Maintainer w/Temp Compensation for Car Truck Lawn Mower Boat Marine”, first available Jul. 23, 2024. Amazon.com [https://www.amazon.com/dp/B0D7Q5XMGZ/] (Year: 2024).*

* cited by examiner

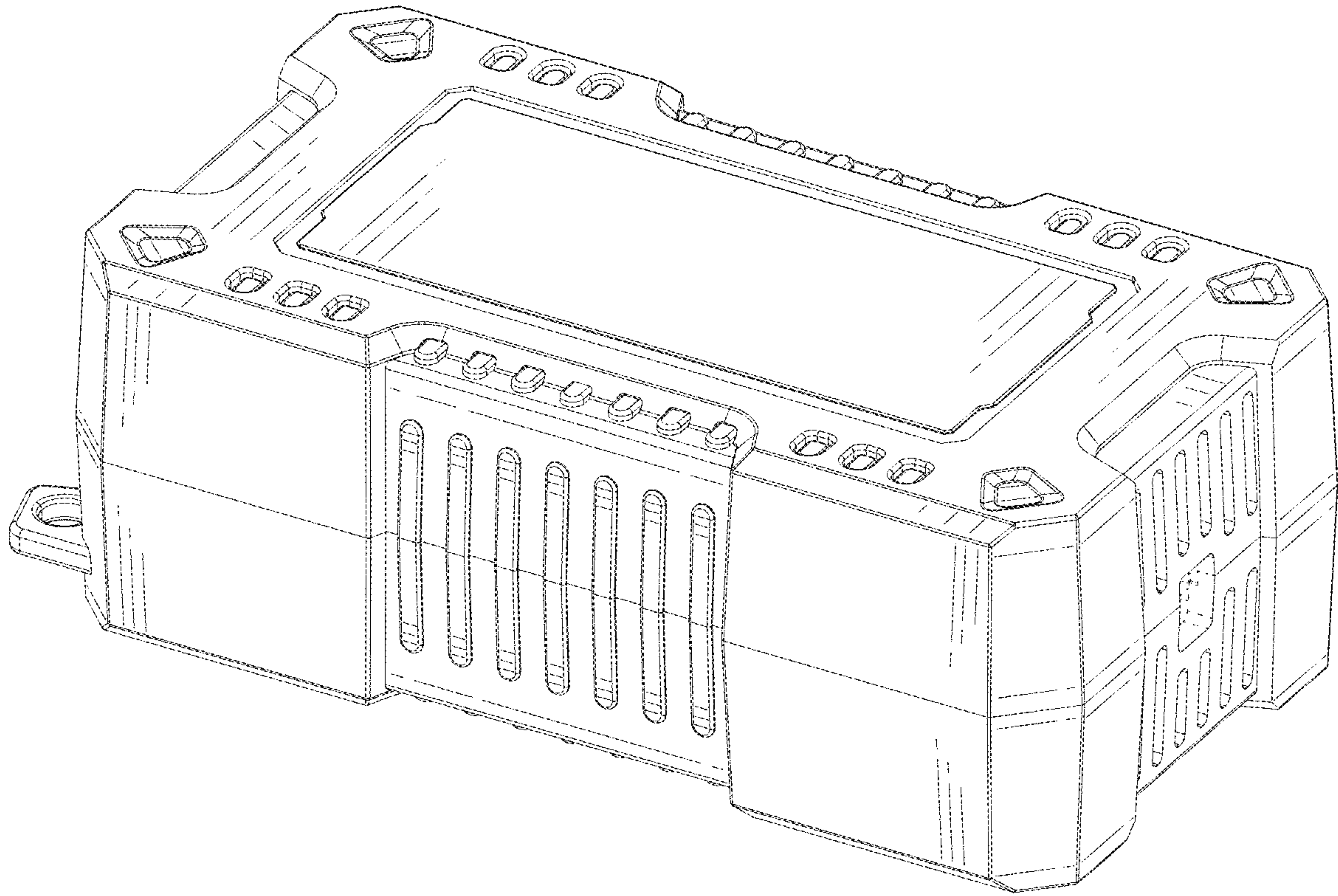


FIG.1

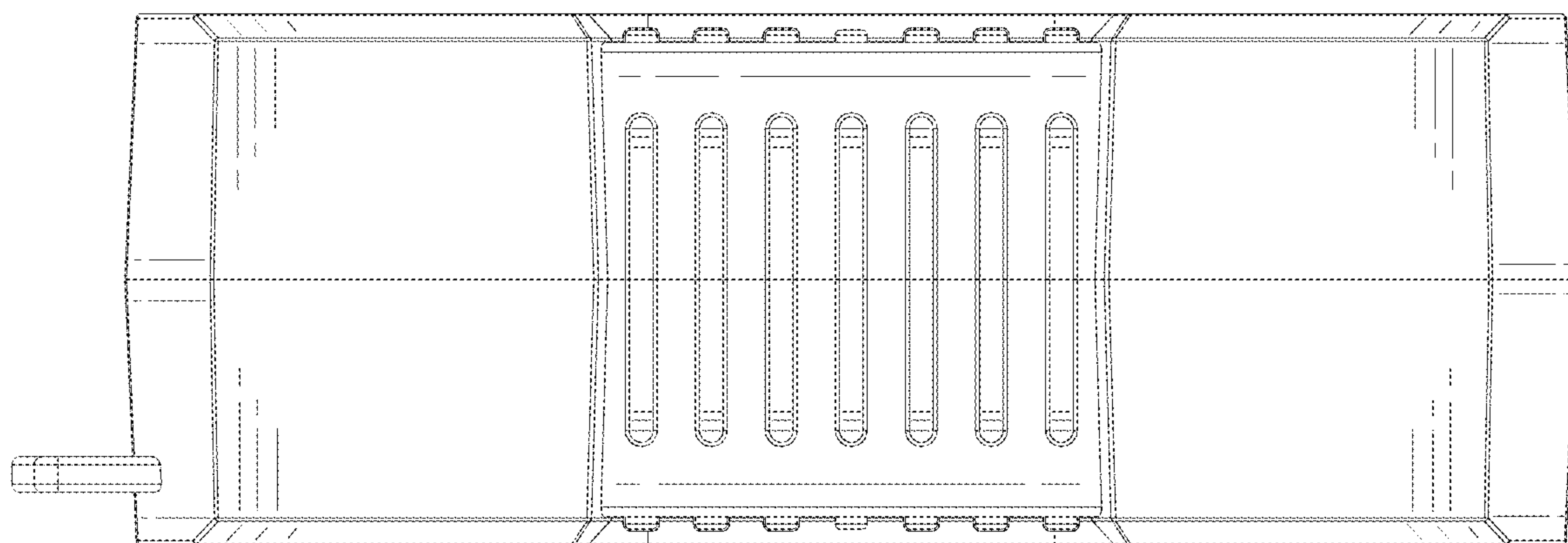


FIG.2

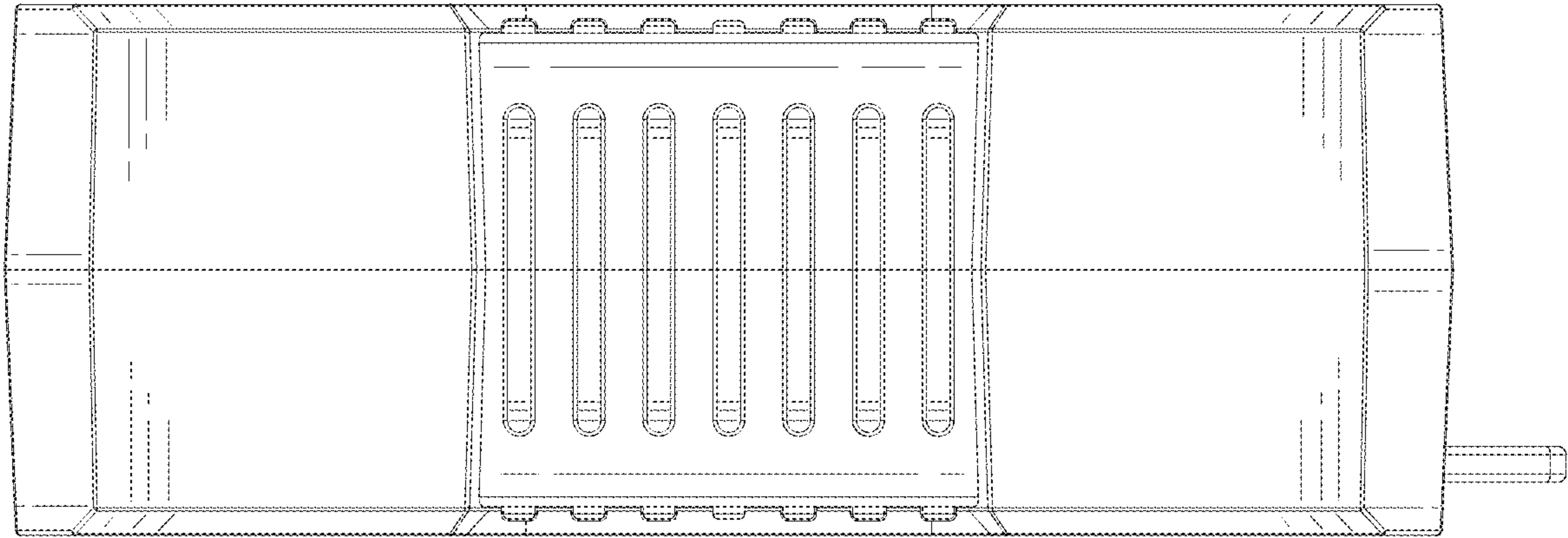


FIG.3

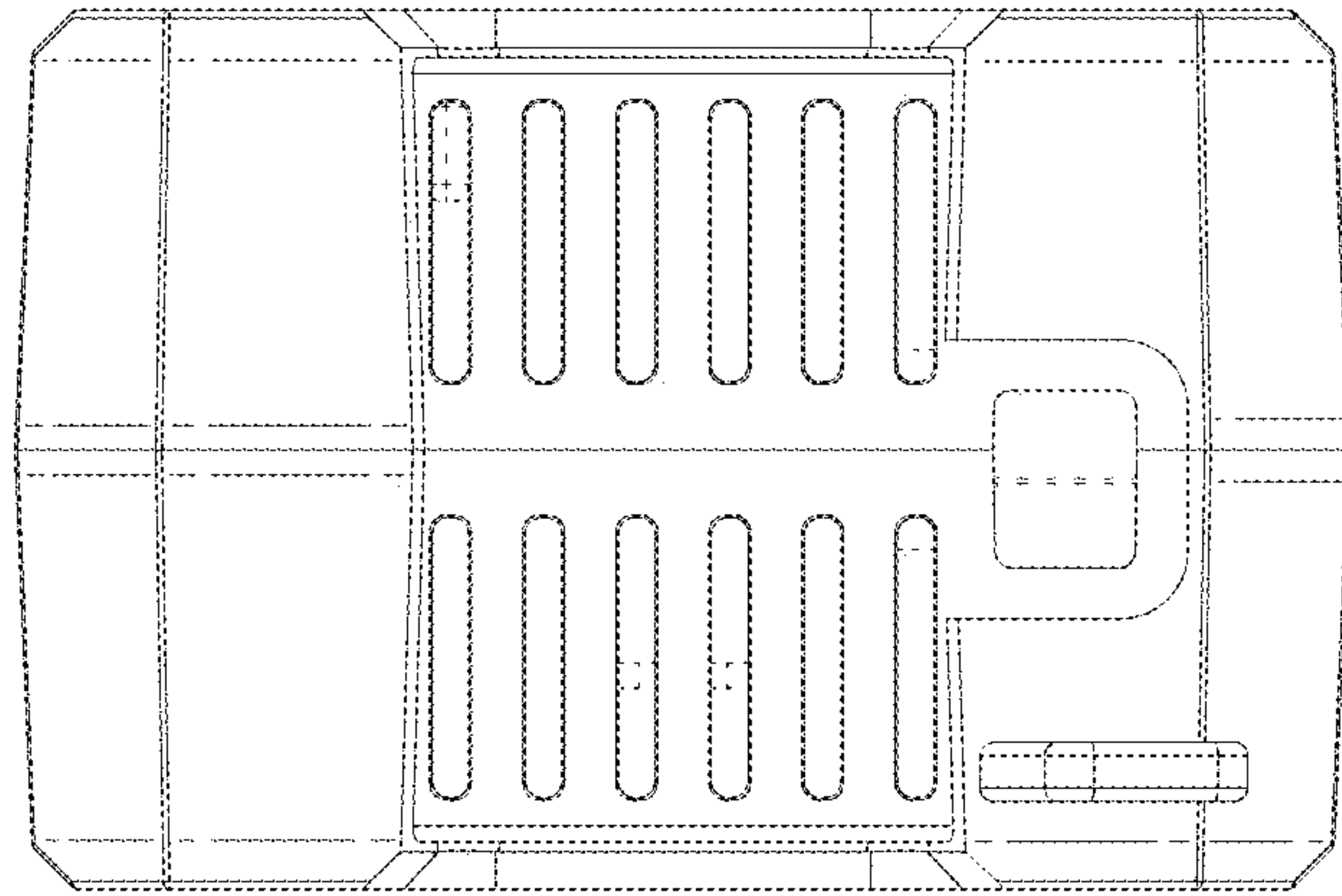


FIG.4

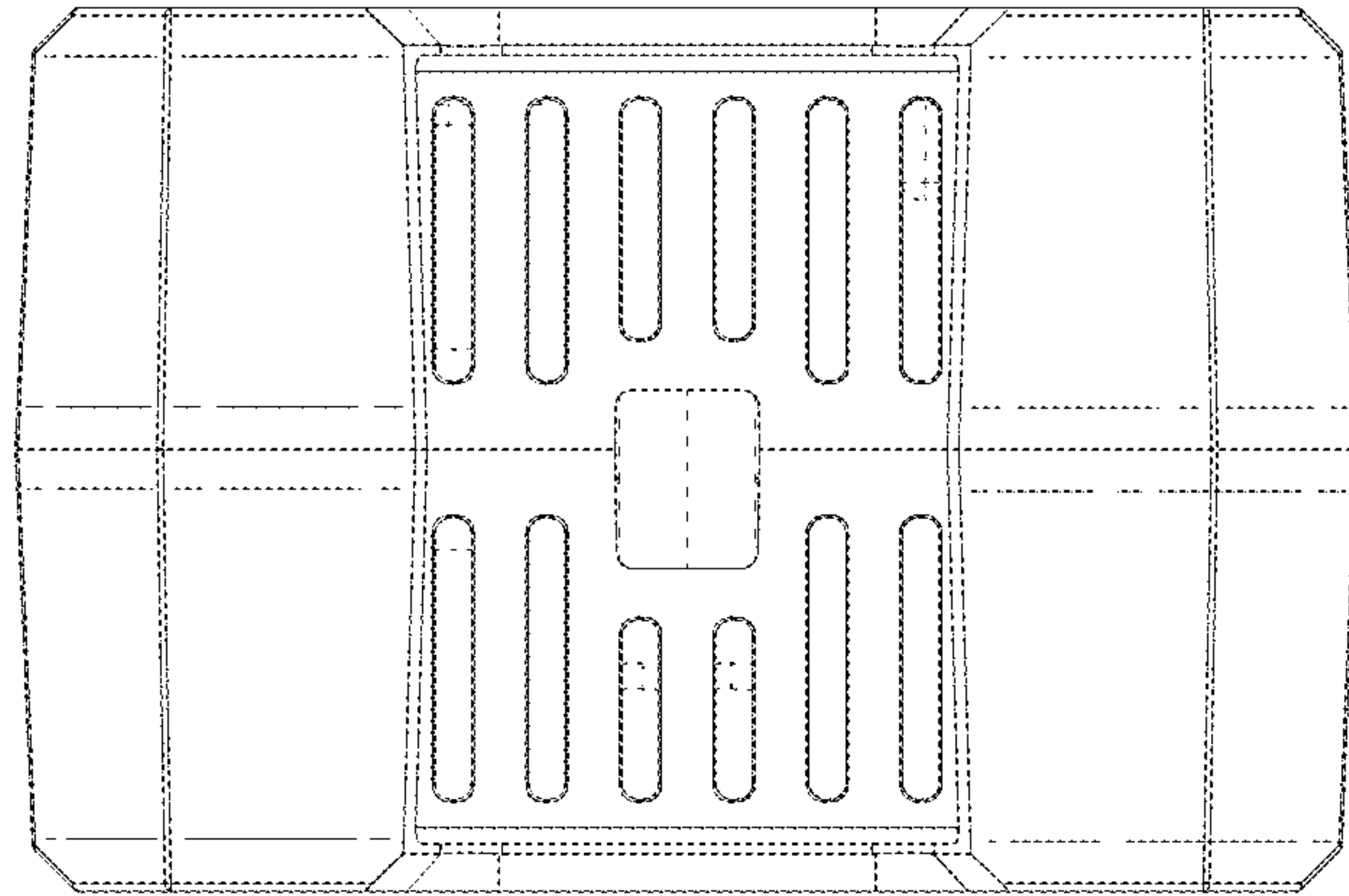


FIG.5

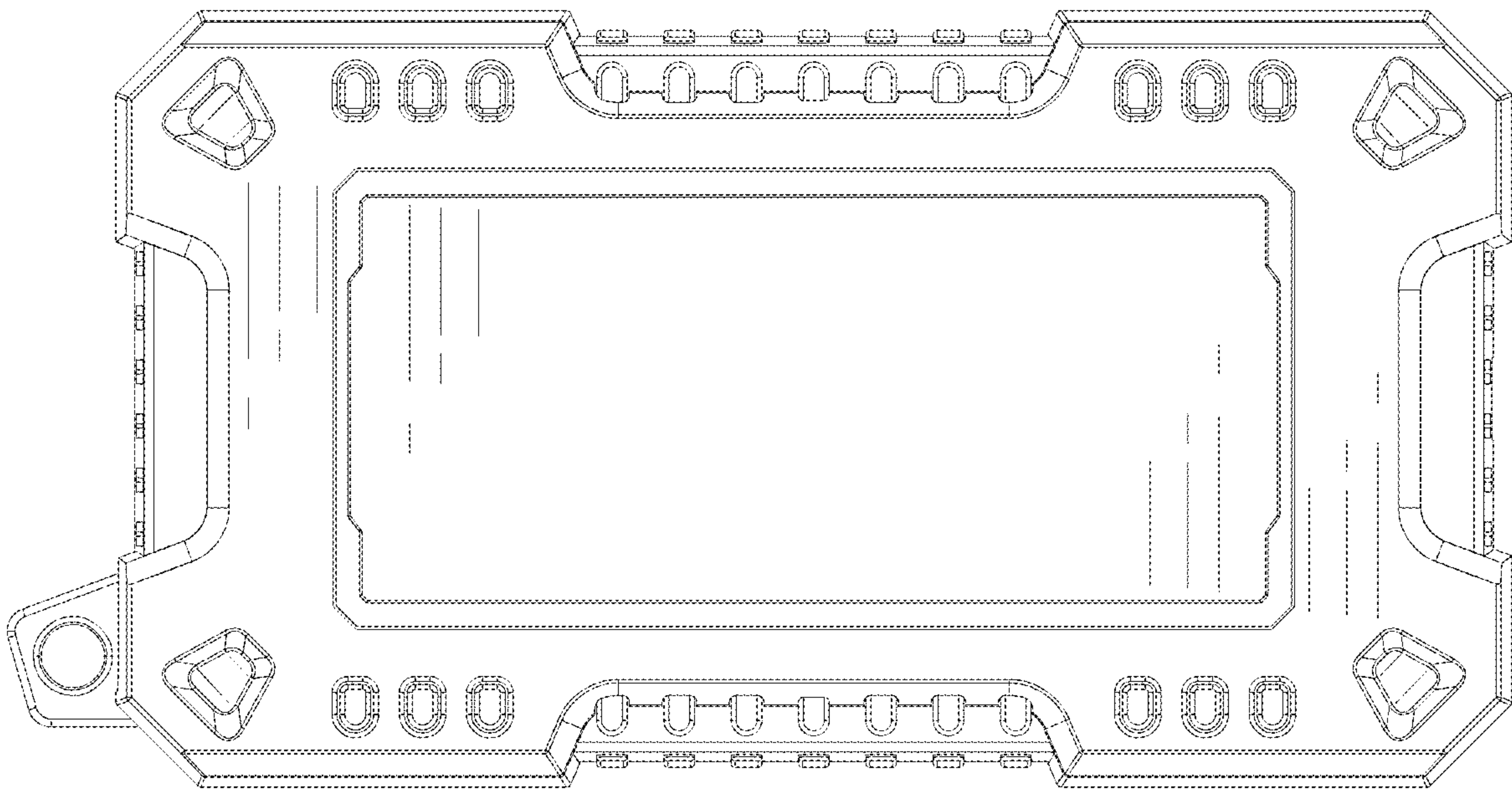


FIG.6

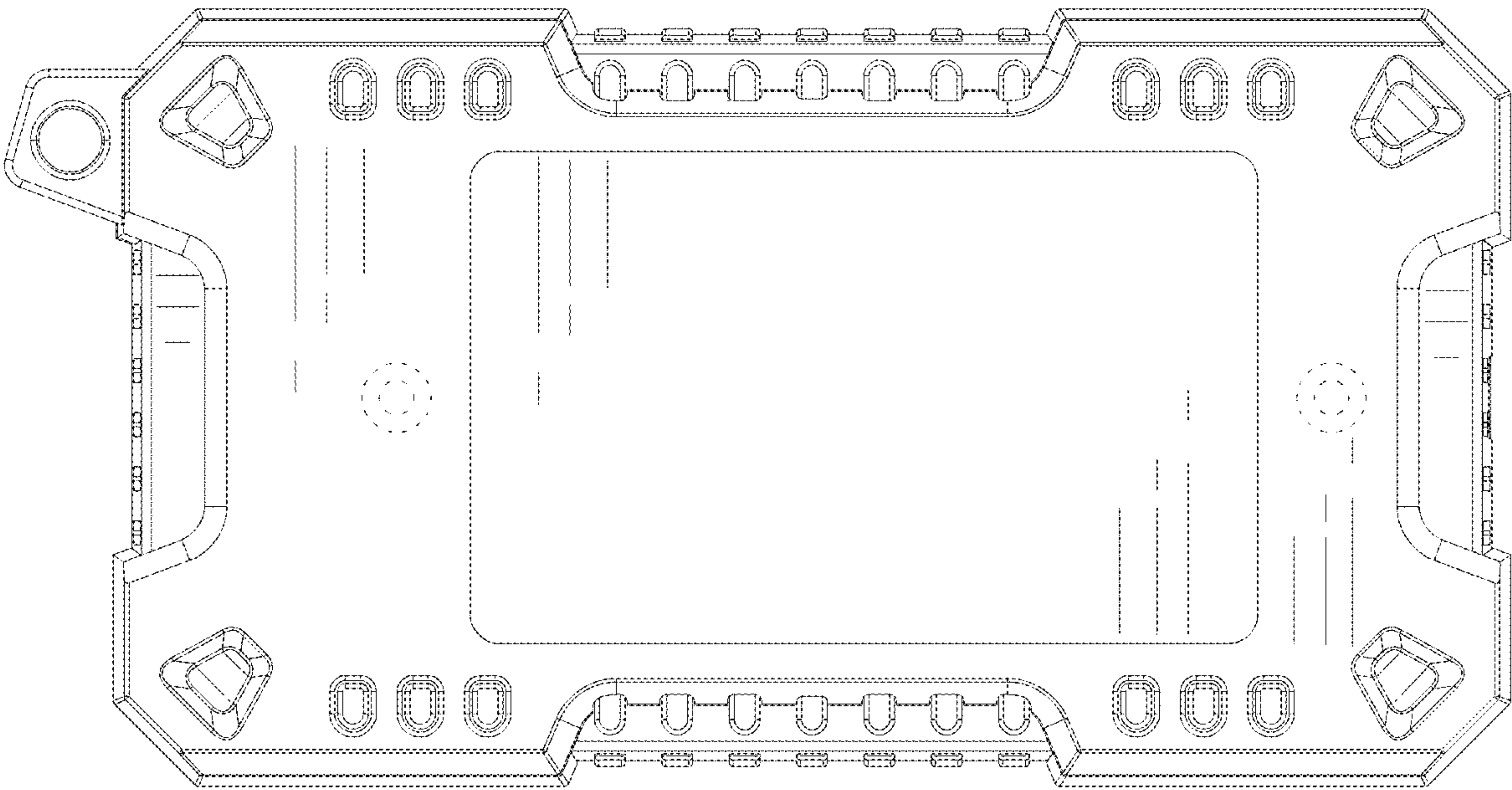


FIG.7

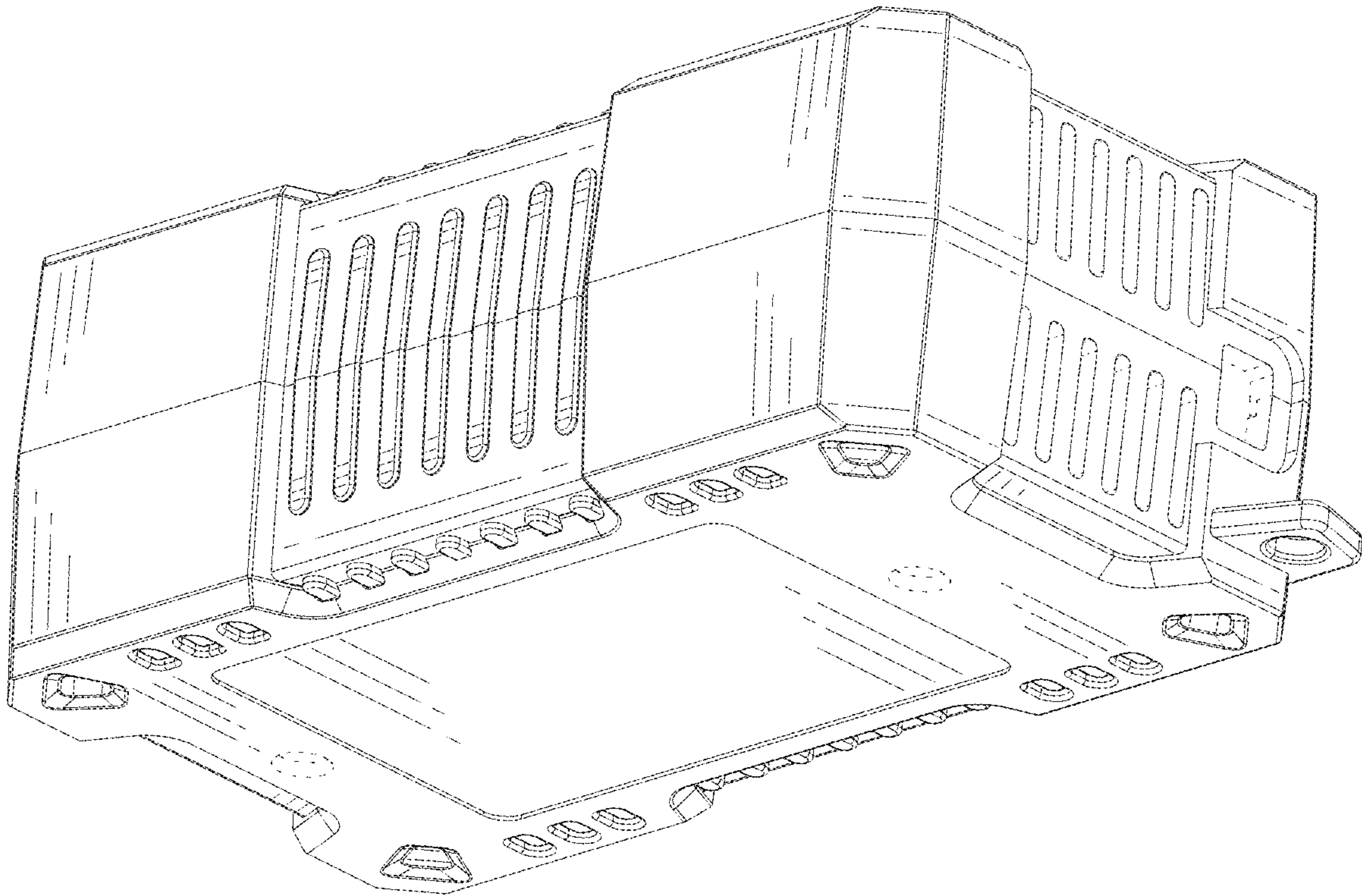


FIG.8