US00D965525S

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

(10) **Patent No.: US D965,525 S**
(45) **Date of Patent: ** Oct. 4, 2022**

(54) **BATTERY TESTER**

(71) Applicant: **CPS Technology Holdings LLC**, New York, NY (US)

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(73) Assignee: **CPS Technology Holdings LLC**, New York, NY (US)

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

(21) Appl. No.: **29/730,553**

(22) Filed: **Apr. 6, 2020**

Related U.S. Application Data

(62) Division of application No. 29/623,181, filed on Oct. 23, 2017, now Pat. No. Des. 880,422.

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

(52) **U.S. Cl.**
USPC **D13/119**

(58) **Field of Classification Search**
USPC D13/103, 104, 107, 108, 110, 119, 120, D13/149, 184, 199; D10/77
CPC H01M 220/20; H01M 50/20; H01M 10/48; B60R 16/04
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D299,909	S		2/1989	Casey	
D587,725	S		3/2009	Krieter	
D643,759	S		8/2011	Bertness	
D654,863	S	*	2/2012	Whiting	D13/107
D684,116	S	*	6/2013	Inskeep	D13/107
D687,727	S		8/2013	Kehoe et al.	
D689,432	S	*	9/2013	Itoh	D13/103
D717,329	S		11/2014	Lin	

(Continued)

FOREIGN PATENT DOCUMENTS

EP 3226015 A1 10/2017

OTHER PUBLICATIONS

Midtronics, "Advancing Battery Management, DSS-5000", Battery Diagnostic Service System, No. 190-000132A, 2 pages.
Midtronics, "Advancing Battery Management, EXP-1000", Expandable Electrical Diagnostic Platform, No. 190-102D En, 4 pages.

(Continued)

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(74) *Attorney, Agent, or Firm* — Boardman & Clark LLP

(57) **CLAIM**

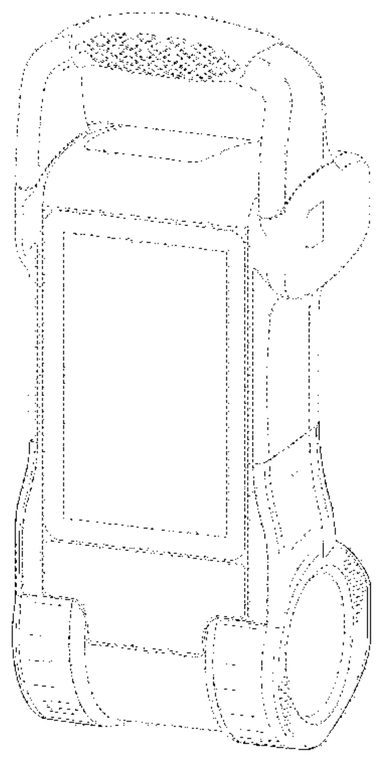
The ornamental design for a battery tester, as shown and described herein.

DESCRIPTION

FIG. **1** is a front isometric view of a design of a battery tester;
FIG. **2** is a back isometric view thereof;
FIG. **3** is a front view thereof;
FIG. **4** is a back view thereof;
FIG. **5** is a right side view thereof;
FIG. **6** is a left side view thereof;
FIG. **7** is a top view thereof;
FIG. **8** is a bottom view thereof;
FIG. **9** is a front isometric view of a battery tester, showing the battery tester seated in a docking station illustrated in dash line; and,
FIG. **10** is a back isometric view thereof.

The broken lines shown in FIGS. **1-8** display portions of the battery tester that form no part of the claimed design. The additional broken lines shown in FIGS. **9** and **10** display a battery tester, which, also form not part of the claimed design. The shade lines in the Figures show contour and not surface ornamentation.

1 Claim, 9 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

D725,031	S *	3/2015	Tinius	D13/103
9,092,634	B2	7/2015	Cherry et al.	
D752,616	S	3/2016	Kouvas	
D814,488	S	4/2018	Wong	
D820,205	S *	6/2018	Yang	D13/107
D821,314	S *	6/2018	Yang	D13/110
D837,252	S	1/2019	Sanchez	
D842,319	S	3/2019	Kawaichi	
D845,980	S	4/2019	Kawaichi	
D853,422	S	7/2019	Zimmerman	
D858,545	S	9/2019	Hazam	
D870,655	S *	12/2019	Vignau-Lous	D13/103
D875,108	S	2/2020	Chitalia	
D875,761	S	2/2020	Heffernan	
D880,422	S *	4/2020	Frigo	D13/119
D890,086	S *	7/2020	Ortlund	D13/103
2009/0241651	A1	10/2009	Ehlers	
2014/0136407	A1	5/2014	Hazam	
2016/0077159	A1	3/2016	Petrucelli	
2017/0177054	A1	6/2017	Vyas	
2017/0201527	A1	7/2017	Bedi	
2017/0285113	A1	10/2017	Hsiao	

OTHER PUBLICATIONS

Midtronics, "Advancing Battery Management, EXP-1000HD", Expandable Electrical Diagnostic Analyzer Platform, No. 190-000098C_En, 4 pages.

Midtronics, "Advancing Battery Management, EXP-800", Battery and Electrical System Diagnostic Analyzer, No. 190-000050B, 2 pages.

Midtronics, "Advancing Battery Management, MDX-600 Series", Battery Conductance and Electric System Analyzers, No. 190-015D_EN, 4 pages.

Midtronics, "Advancing Battery Management, MDX-700HD", Heavy Duty Battery Conductance and Electrical System Analyzer, No. 190-000024B_EN, 4 pages.

Midtronics, "Advancing Battery Management, MDX-P300", Battery Conductance and Electrical System Tester, No. 190-004C, 2 pages.

Midtronics, "Advancing Battery Management, PBT Series", Battery and Electrical System Testers and Analyzers, No. 190-000057B-EN, 2 pages.

International Search Report and Written Opinion of the International Searching Authority dated Apr. 2, 2019, for PCT/US2018/057140 filed Oct. 23, 2018, 13 pgs.

* cited by examiner

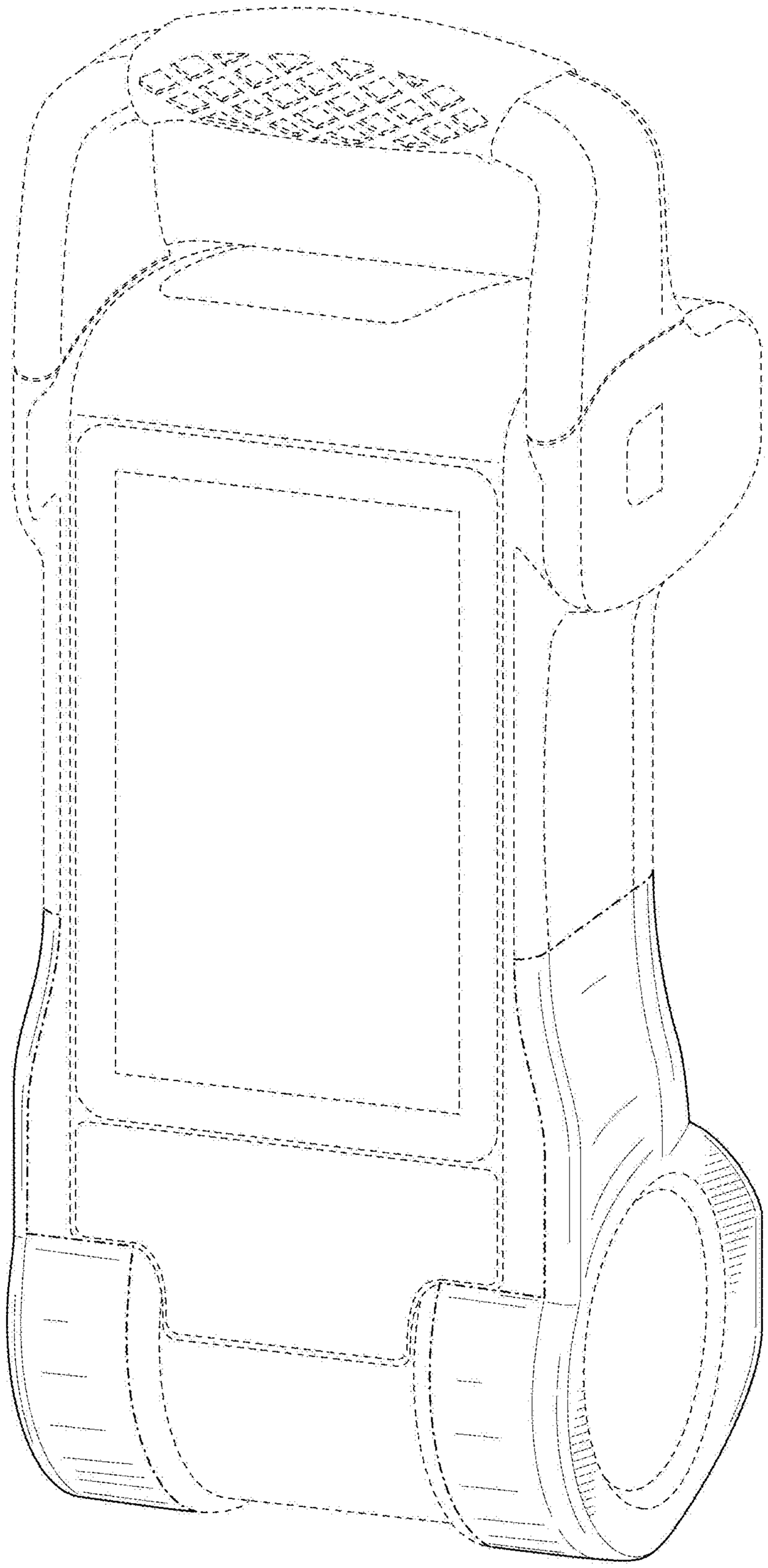


FIG. 1

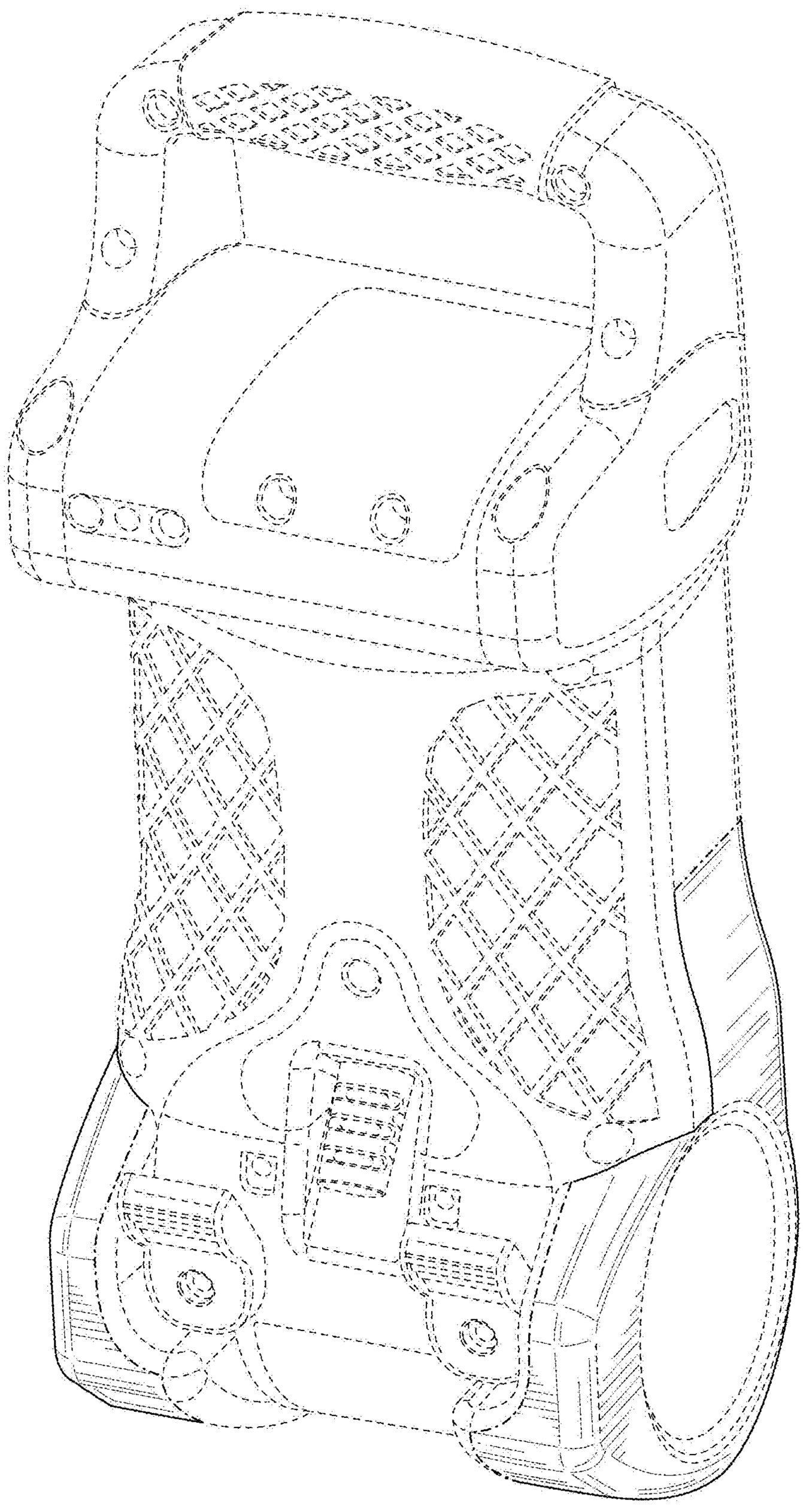


FIG. 2

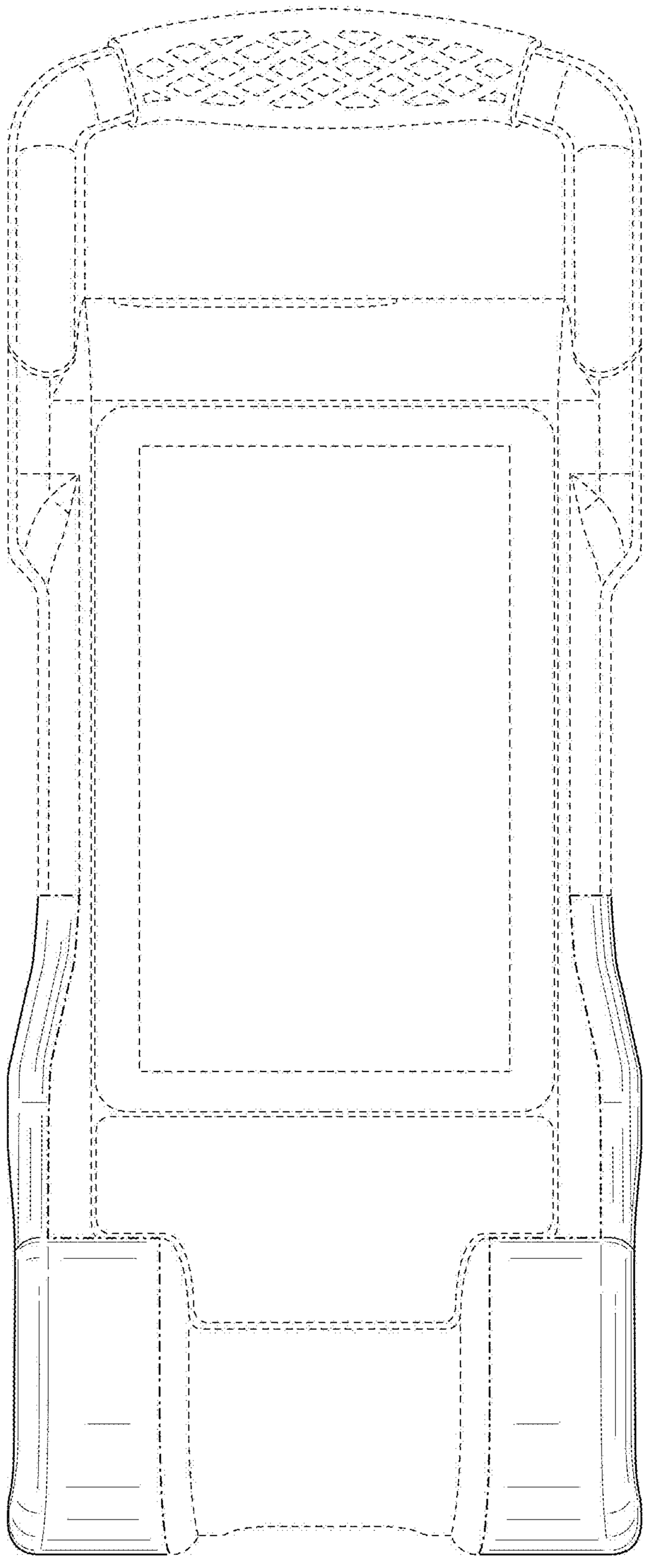


FIG. 3

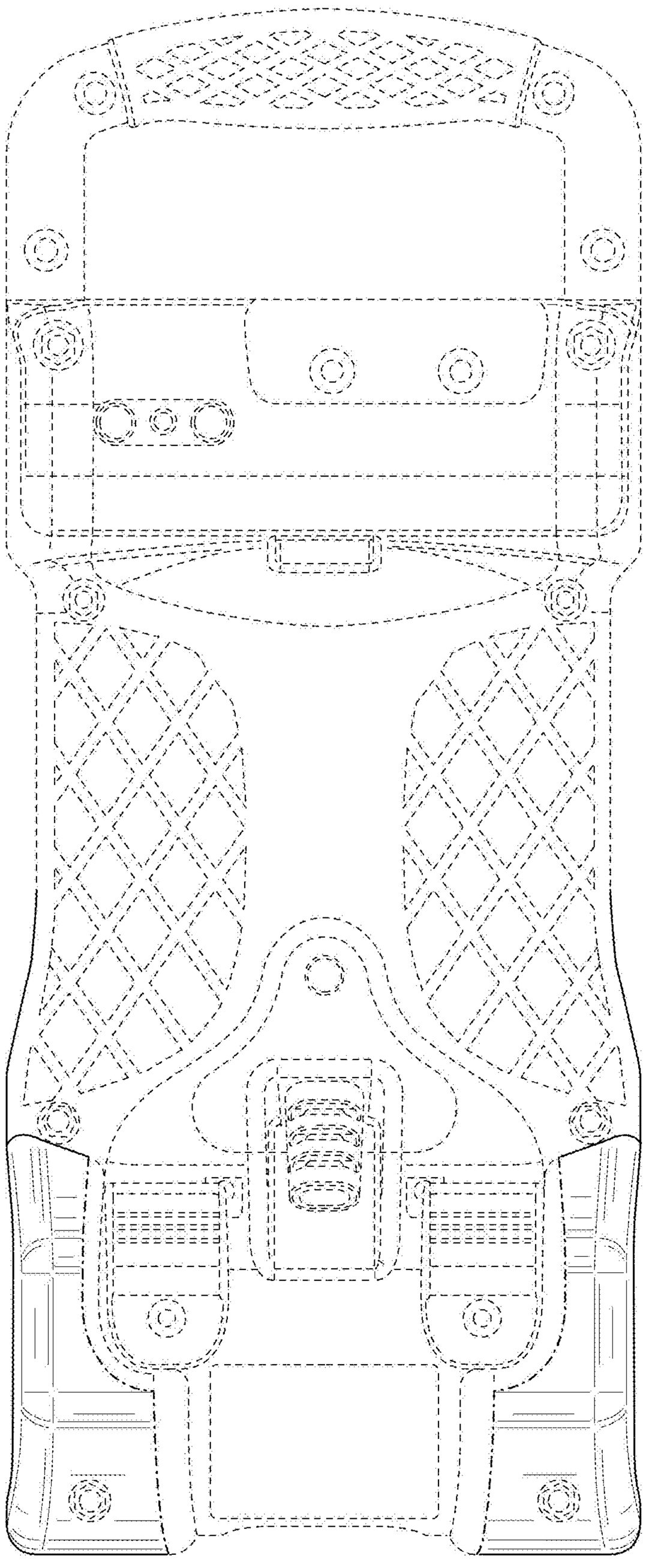


FIG. 4

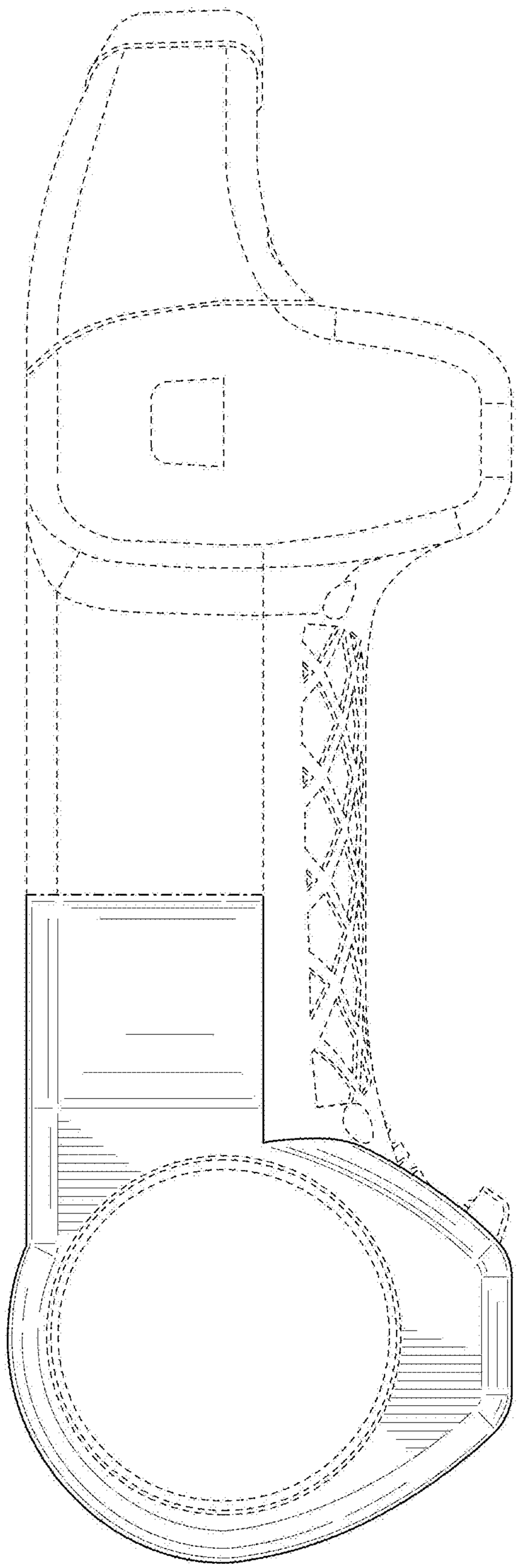


FIG. 5

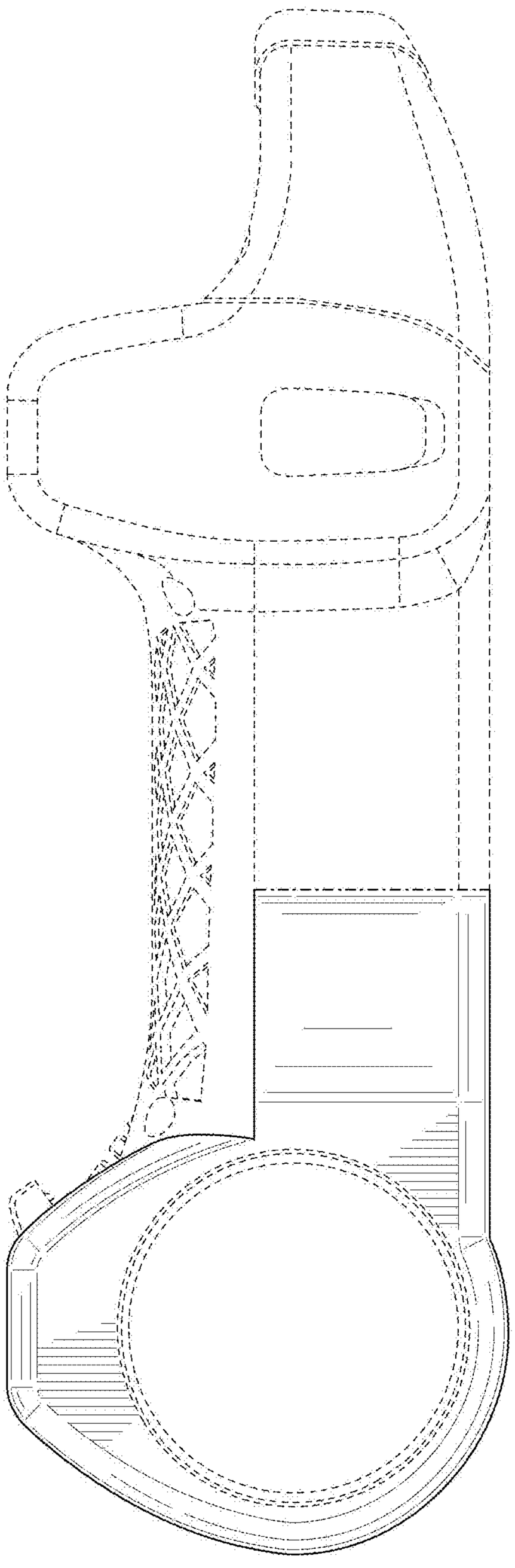


FIG. 6

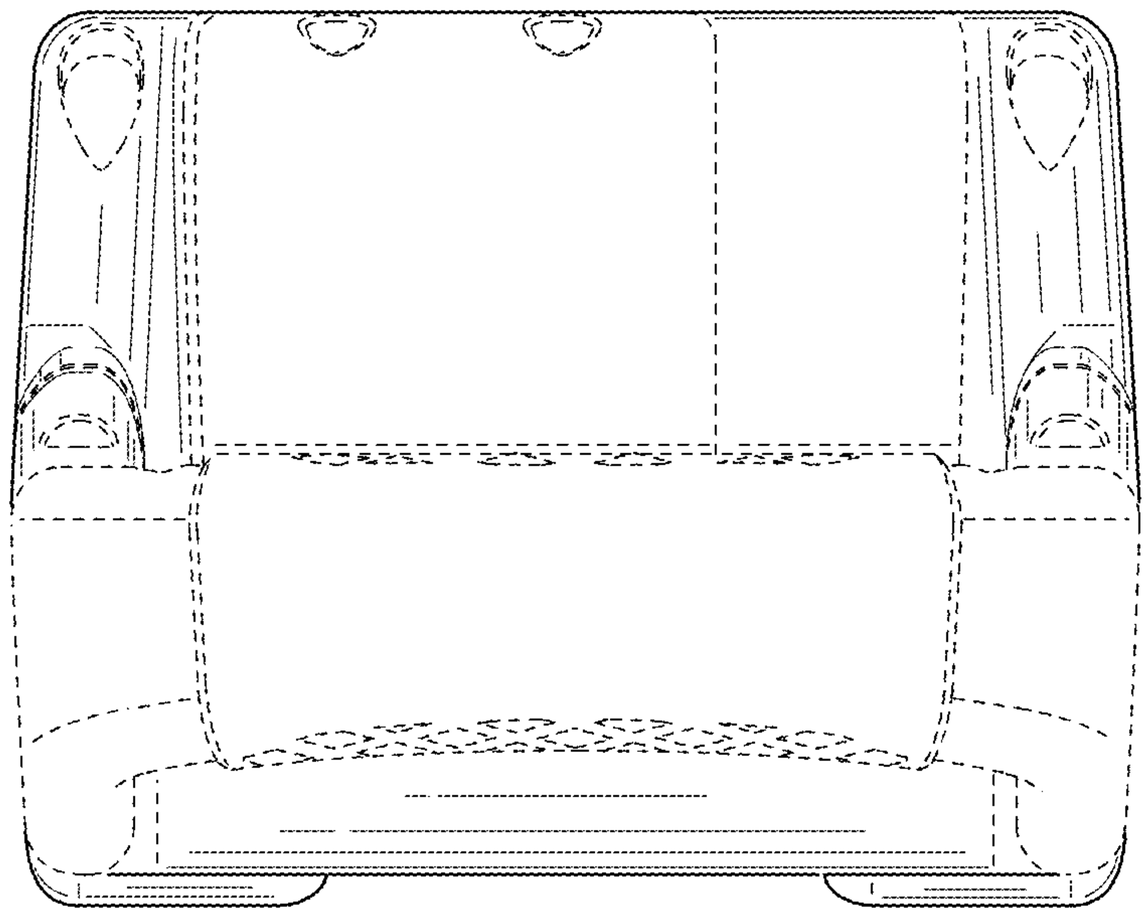


FIG. 7

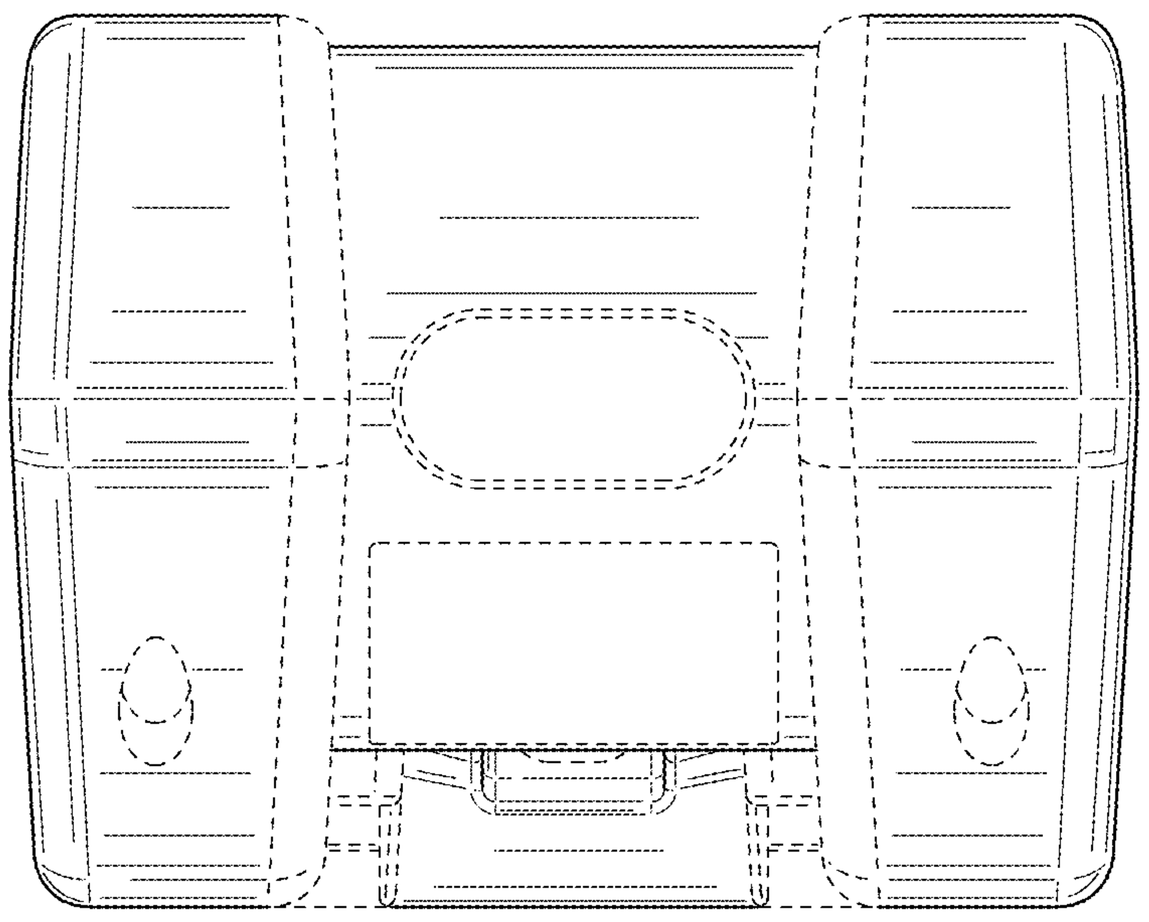


FIG. 8

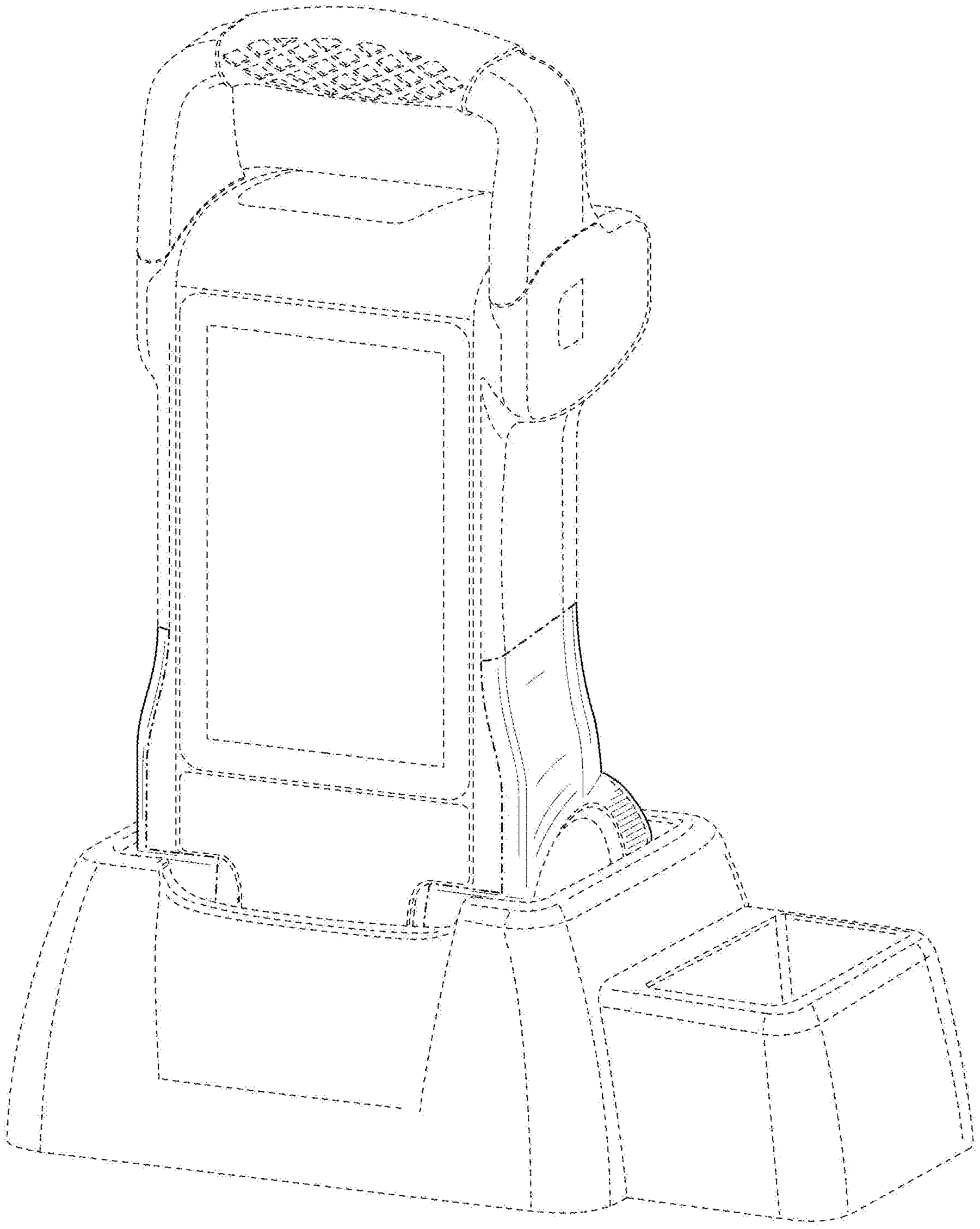


FIG. 9

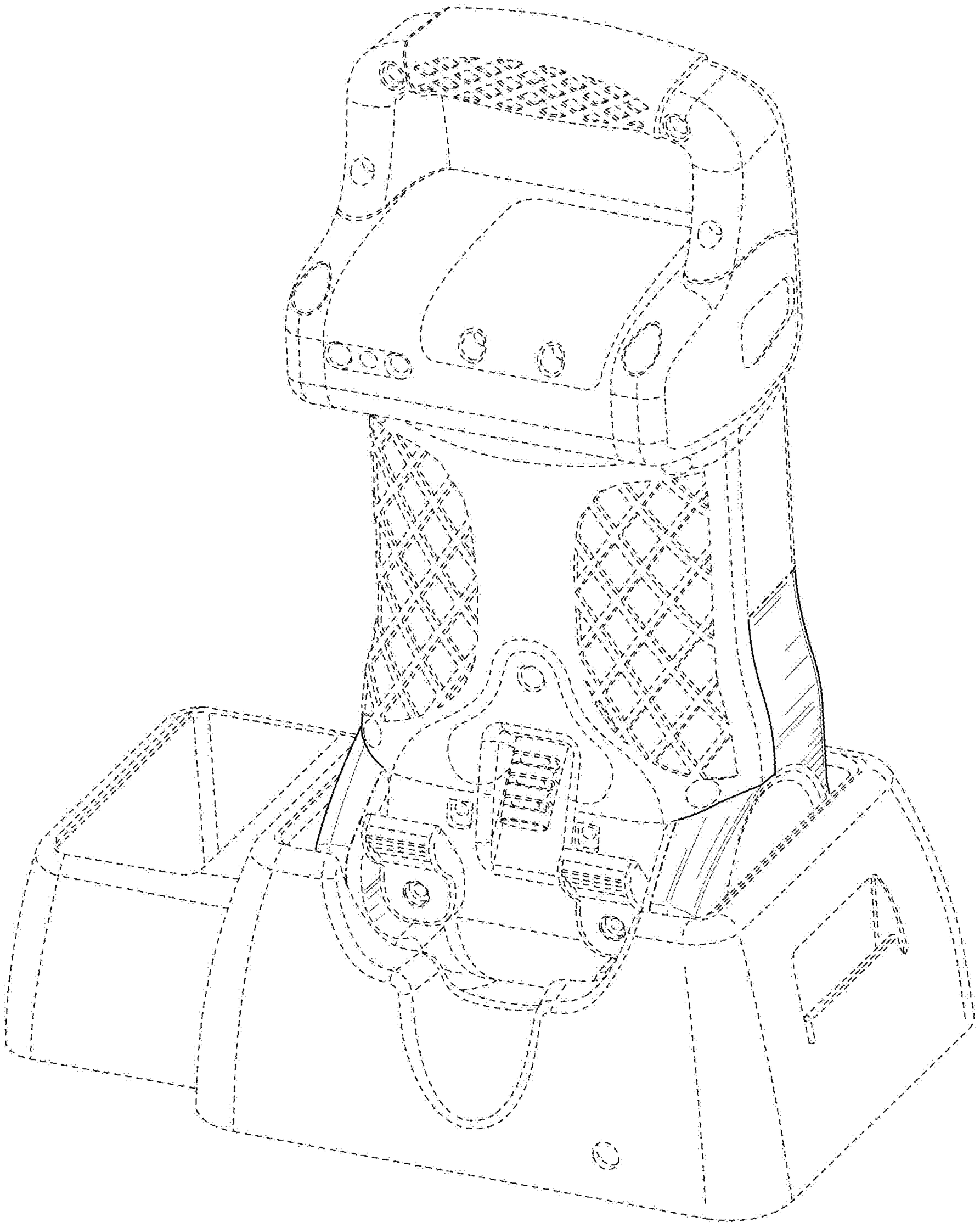


FIG. 10

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : D965,525 S
APPLICATION NO. : 29/730553
DATED : October 4, 2022
INVENTOR(S) : Frigo et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page

1. Under "DESCRIPTION", in Column 2, Line 17, delete "which," and insert -- which --, therefor.

2. Under "DESCRIPTION", in Column 2, Line 17, delete "form not" and insert -- forms no --, therefor.

Signed and Sealed this
Ninth Day of April, 2024

Katherine Kelly Vidal

Katherine Kelly Vidal
Director of the United States Patent and Trademark Office