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United States Design Patent

Elrod et al.

(10)

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(45)

Date of Patent:

** Sep. 2, 2025

(54) CHARGING STATION ANALYZER

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Roger L. Howell, Seattle, WA (US)

(73) Assignee: Fluke Corporation, Everett, WA (US)

(**) Term: 15 Years

(21) Appl. No.: 29/925,663

(22) Filed: Jan. 25, 2024

(51) LOC (15) Cl. 10-04

(52) U.S. Cl.
USPC D10/78

(58) Field of Classification Search
USPC ... D10/46, 78, 102, 79, 75, 77, 80, 100, 103
(Continued)

(56) References Cited

U.S. PATENT DOCUMENTS

D251,184 S * 2/1979 Volk D10/103
D480,558 S * 10/2003 Ikeda D3/228
(Continued)

FOREIGN PATENT DOCUMENTS

CN 303094867 * 2/2015
CN 305244169 * 7/2019
(Continued)

OTHER PUBLICATIONS

Fluke FEV150/FEV350, manuals.plus, Date:5, 2024, [site visited:
Apr. 16, 2025], Available from URL: https://manuals.plus/m/f1a0525e0076bc1a0cbf1b70ee3979a2081b128102aedb98022e3d4f8baa40c2_optim.pdf (Year: 2024).
(Continued)

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Assistant Examiner — Mary Anne Arntzen

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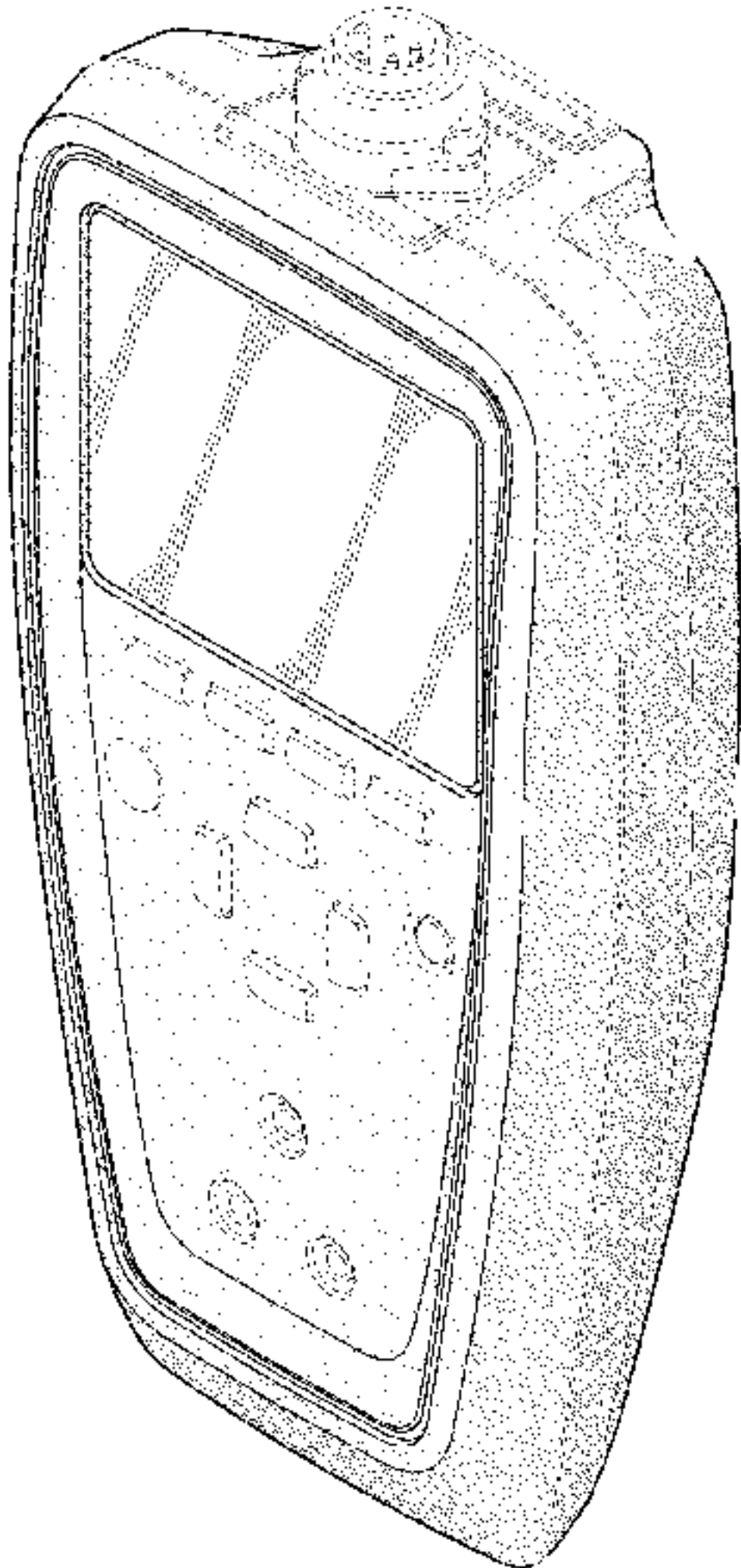
(57) CLAIM

The ornamental design for a charging station analyzer as
shown and described.

DESCRIPTION

FIG. 1 is a top, front, right side perspective view of a
charging station analyzer showing our new design.
FIG. 2 is a bottom, rear, left side perspective view thereof.
FIG. 3 is a front elevation view thereof.
FIG. 4 is a rear elevation view thereof.
FIG. 5 is a left side elevation view thereof.
FIG. 6 is a right side elevation view thereof.
FIG. 7 is a top plan view thereof.
FIG. 8 is a bottom plan view thereof.
FIG. 9 is a top, front, right side perspective view of another
embodiment of the charging station analyzer showing our
new design.
FIG. 10 is a bottom, rear, left side perspective view thereof.
FIG. 11 is a front elevation view thereof.
FIG. 12 is a rear elevation view thereof.
FIG. 13 is a left side elevation view thereof.
FIG. 14 is a right side elevation view thereof.
FIG. 15 is a top plan view thereof.
FIG. 16 is a bottom plan view thereof.
FIG. 17 is a top, front, right side perspective view of another
embodiment of the charging station analyzer showing our
new design.
FIG. 18 is a bottom, rear, left side perspective view thereof.
FIG. 19 is a front elevation view thereof.
FIG. 20 is a rear elevation view thereof.
FIG. 21 is a left side elevation view thereof.
FIG. 22 is a right side elevation view thereof.
FIG. 23 is a top plan view thereof; and,
FIG. 24 is a bottom plan view thereof.
The broken lines in the figures represent features of the
charging station analyzer that form no part of the claimed
design.

1 Claim, 18 Drawing Sheets



(58) **Field of Classification Search**
CPC G01R 19/155; G01R 19/16561;
G01R 6/788; G01R 31/58; G01R
31/1272; G01R 31/14; G01R 31/50;
G01R 1/067; G01R 1/04; G01R 1/22;
G01R 19/145; G01R 19/15; G01R 15/12;
G01R 15/125
See application file for complete search history.

(56) **References Cited**
U.S. PATENT DOCUMENTS

D634,227 S * 3/2011 Marzynski D10/78
7,911,200 B2 * 3/2011 Worones G01R 1/04
324/156
D731,908 S * 6/2015 Huang D10/77
D780,609 S * 3/2017 Richer D10/76
2011/0074395 A1 * 3/2011 Marzynski G01R 15/125
324/114
2017/0078544 A1 * 3/2017 Ringsrud H04N 23/57
2024/0319237 A1 * 9/2024 Elrod G01R 19/25

FOREIGN PATENT DOCUMENTS

CN 306077559 * 9/2020

CN 307797056 * 1/2023
CN 308033293 * 5/2023

OTHER PUBLICATIONS

EV-Test100, www.ht-instruments.com, No date, [site visited: Apr. 16, 2025], Available from URL: <https://www.ht-instruments.com/en/products/installation-testers/ev-charging-station-tester/macroevtest/> (Year: 2025).*

Fluke FEV100 Electric Vehicle Charging Station EVSE Tester, tecratools.com, Date: 2021, [site visited: Apr. 16, 2025], Available from URL: <https://tecratools.com/product2621.html> (Year: 2021).*

EV Charger Tester, breez-ev.com, No date, [site visited: Apr. 16, 2025], Available from URL: <https://breez-ev.com/evc-tester/> (Year: 2025).*

Electric Vehicle Charger Test Kit, triplett.com, No date, [site visited: Apr. 16, 2025], Available from URL: <https://www.triplett.com/products/tev300> (Year: 2025).*

Sonel Adapter for Testing Vehicle Charging Stations, indiamart.com, No date, [site visited: Apr. 16, 2025], Available from URL: <https://www.indiamart.com/proddetail/sonel-adapter-for-testing-vehicle-charging-stations-evse-01-27523061173.html> (Year: 2025).*

* cited by examiner

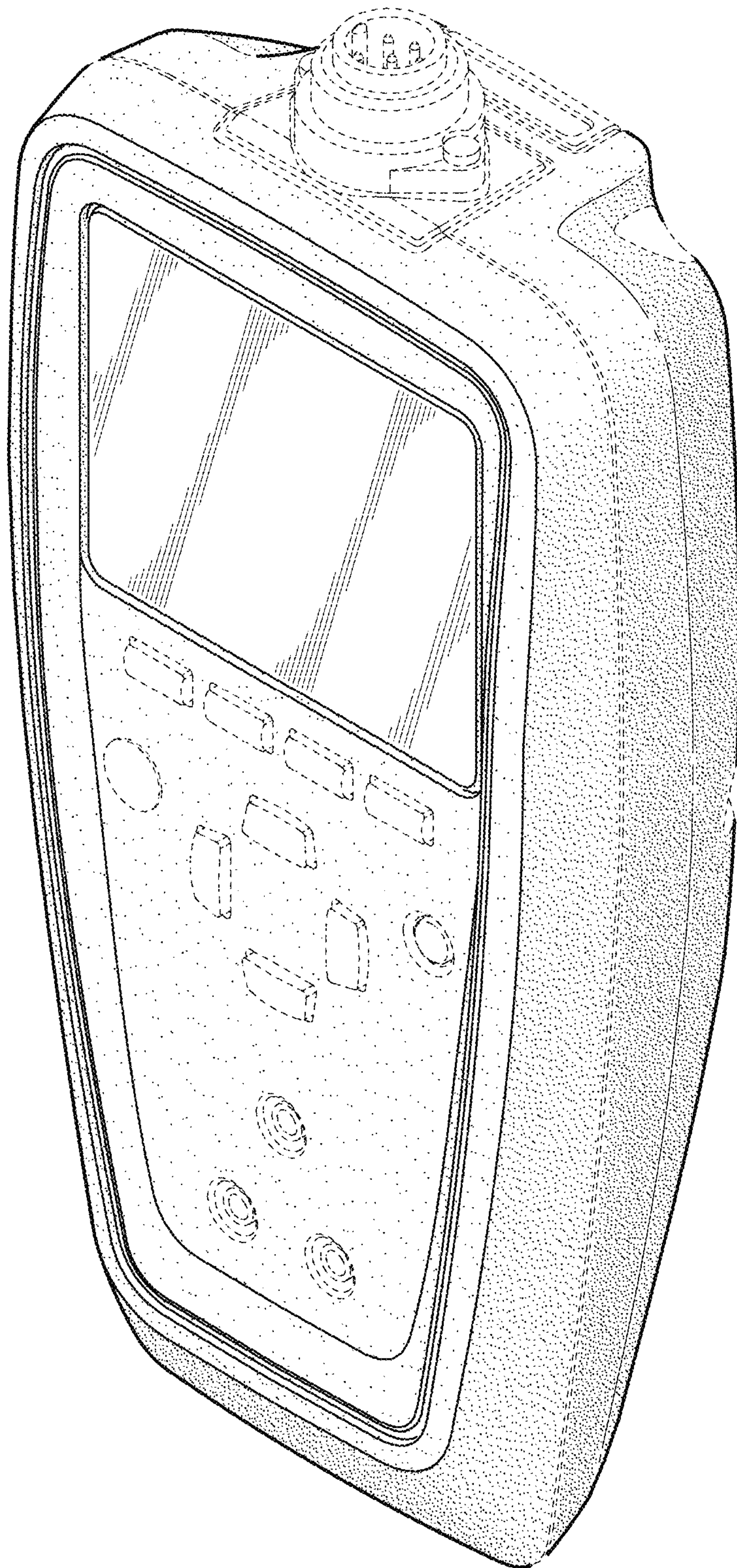


FIG. 1

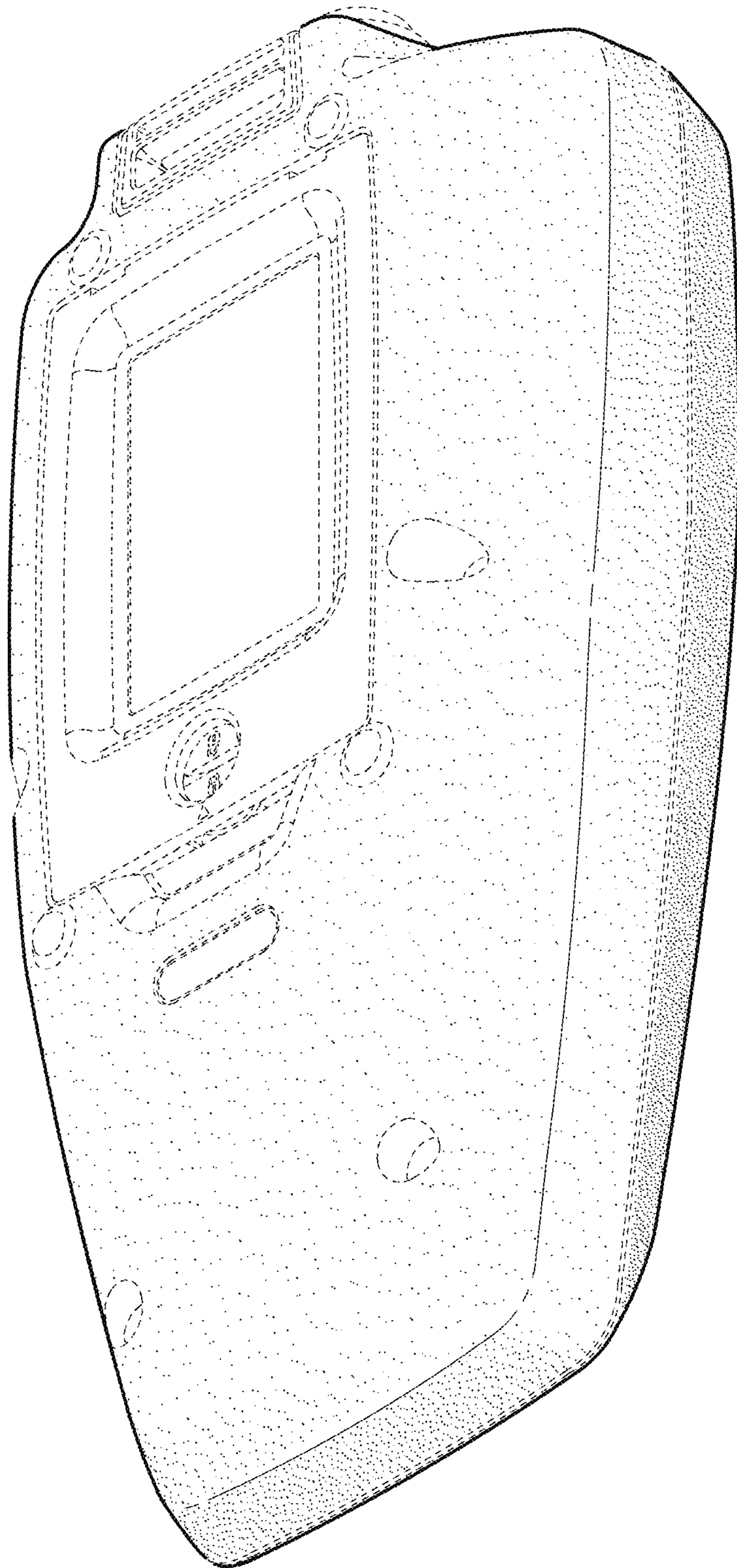


FIG. 2

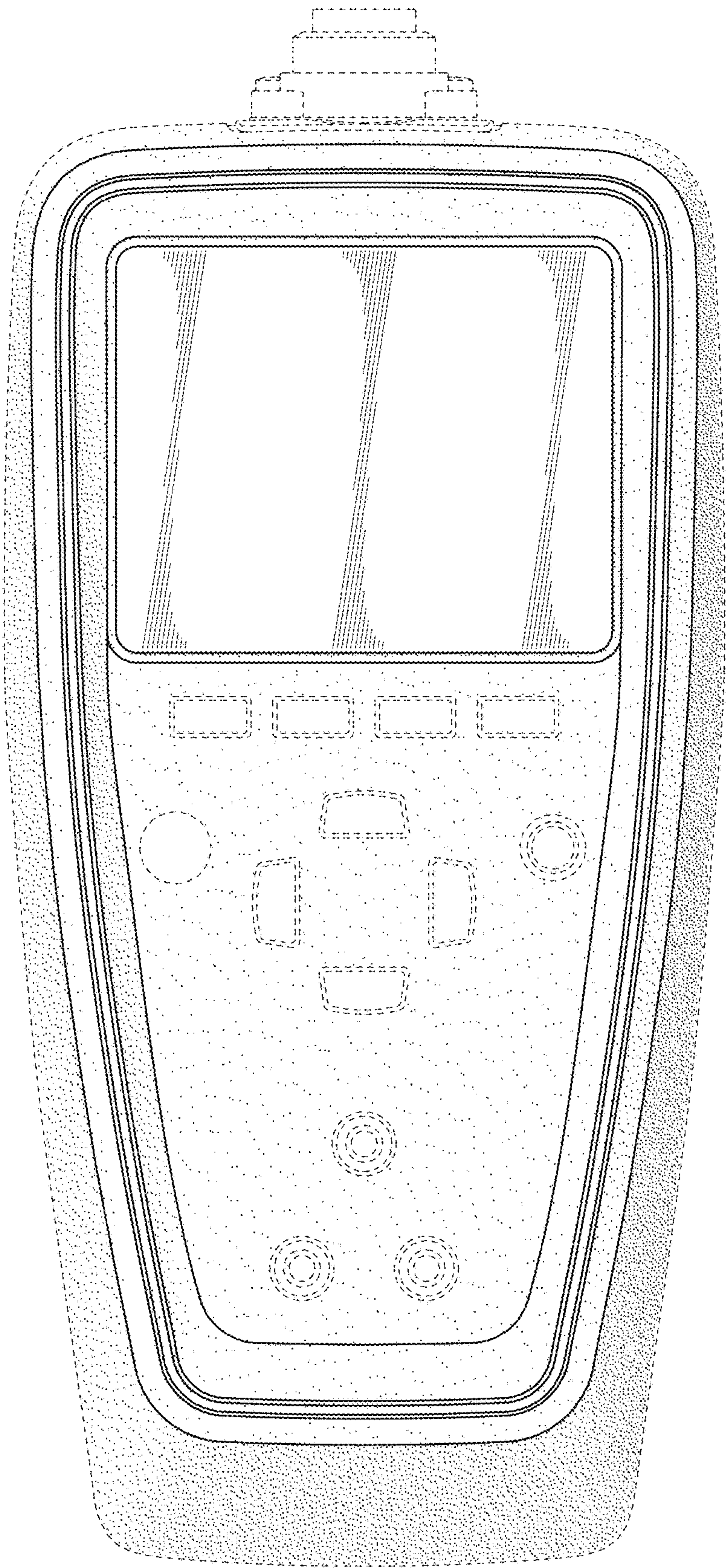


FIG. 3

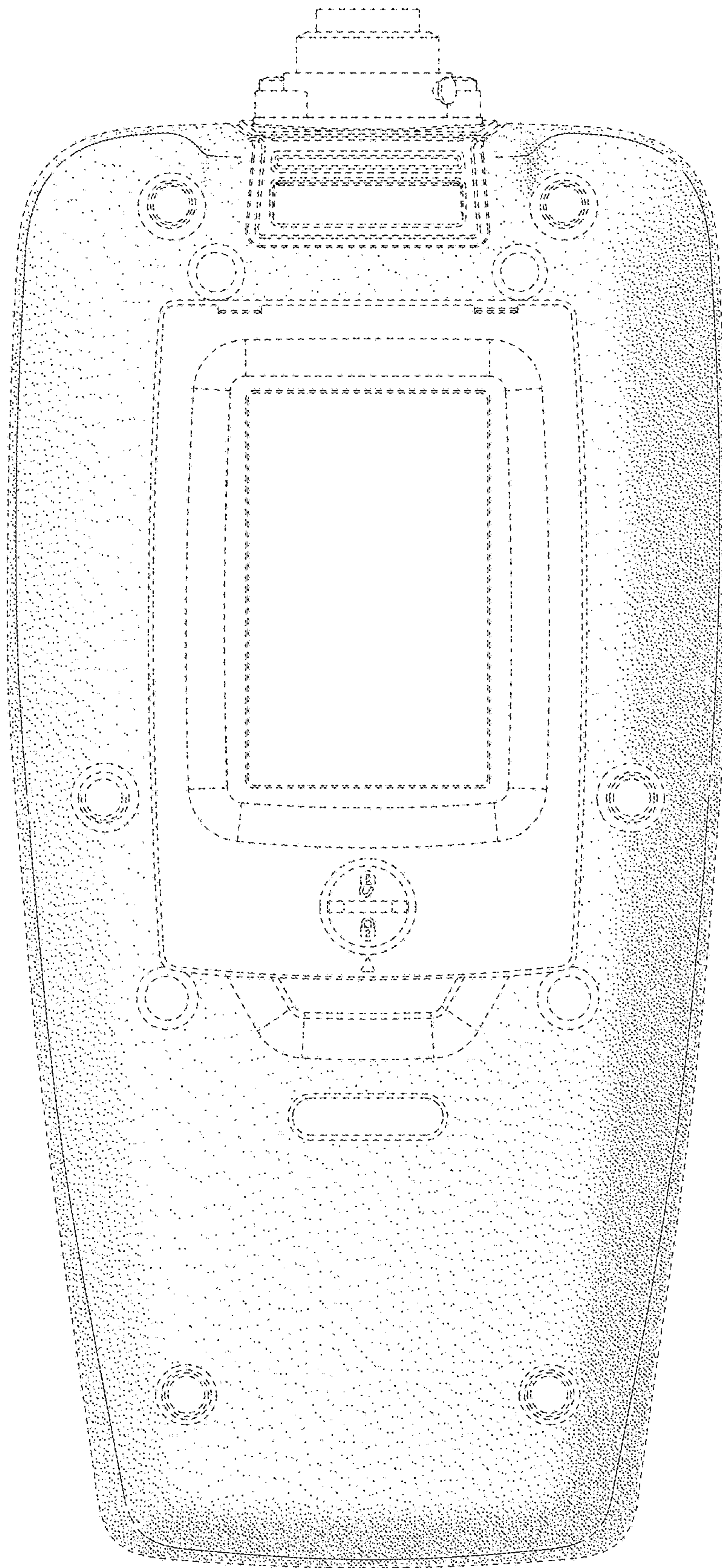


FIG. 4

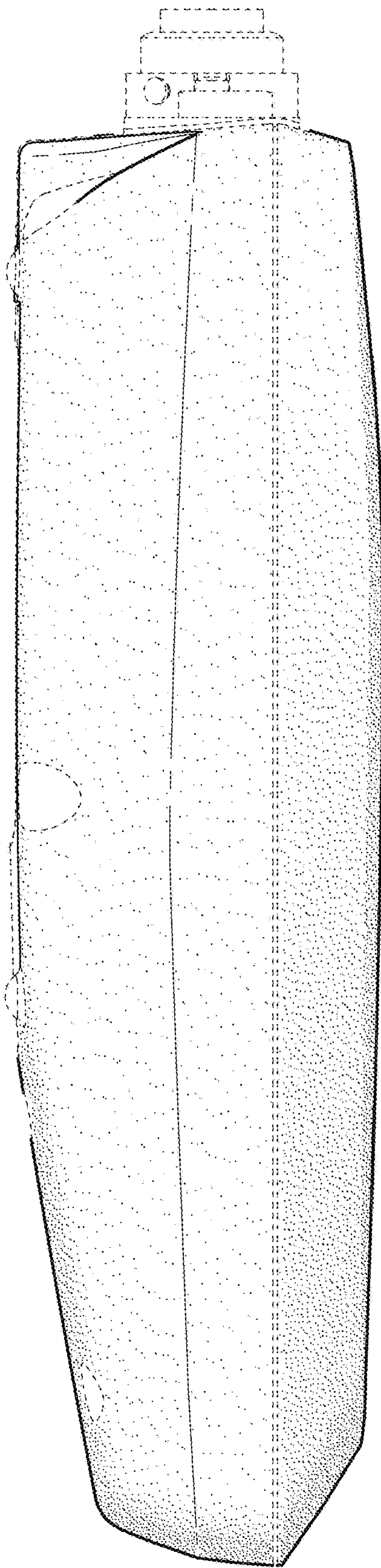


FIG. 5

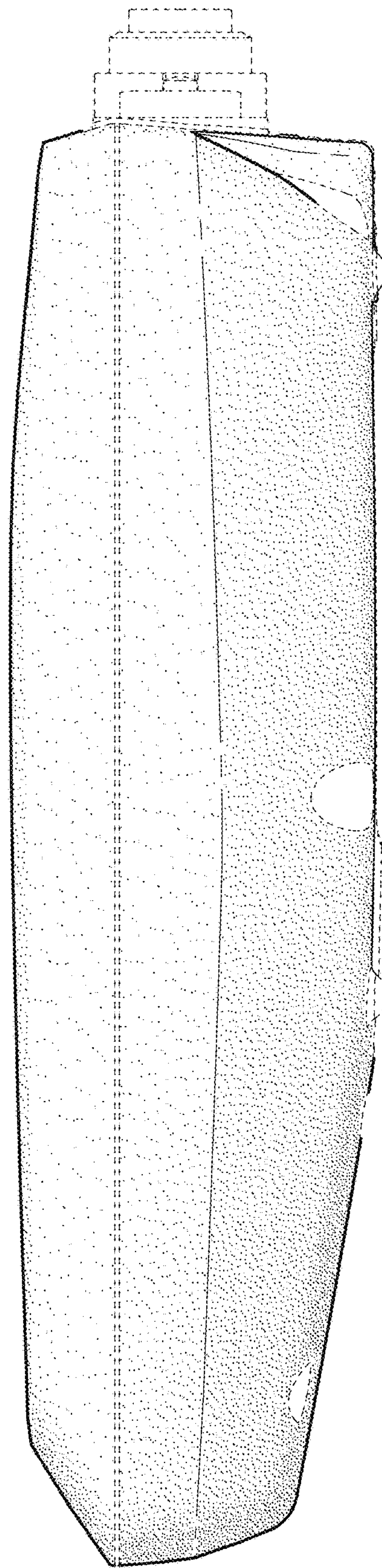


FIG. 6

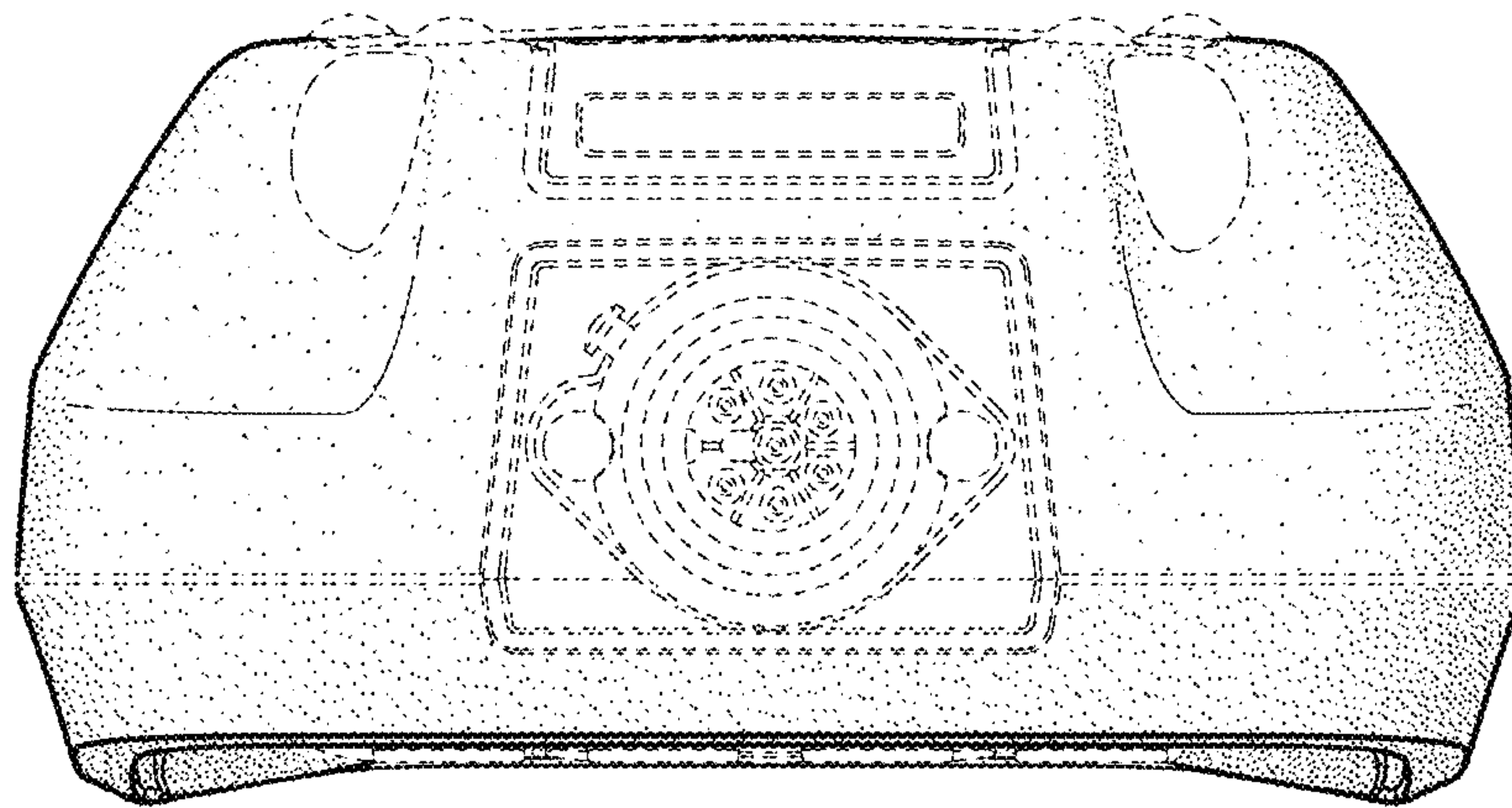


FIG. 7

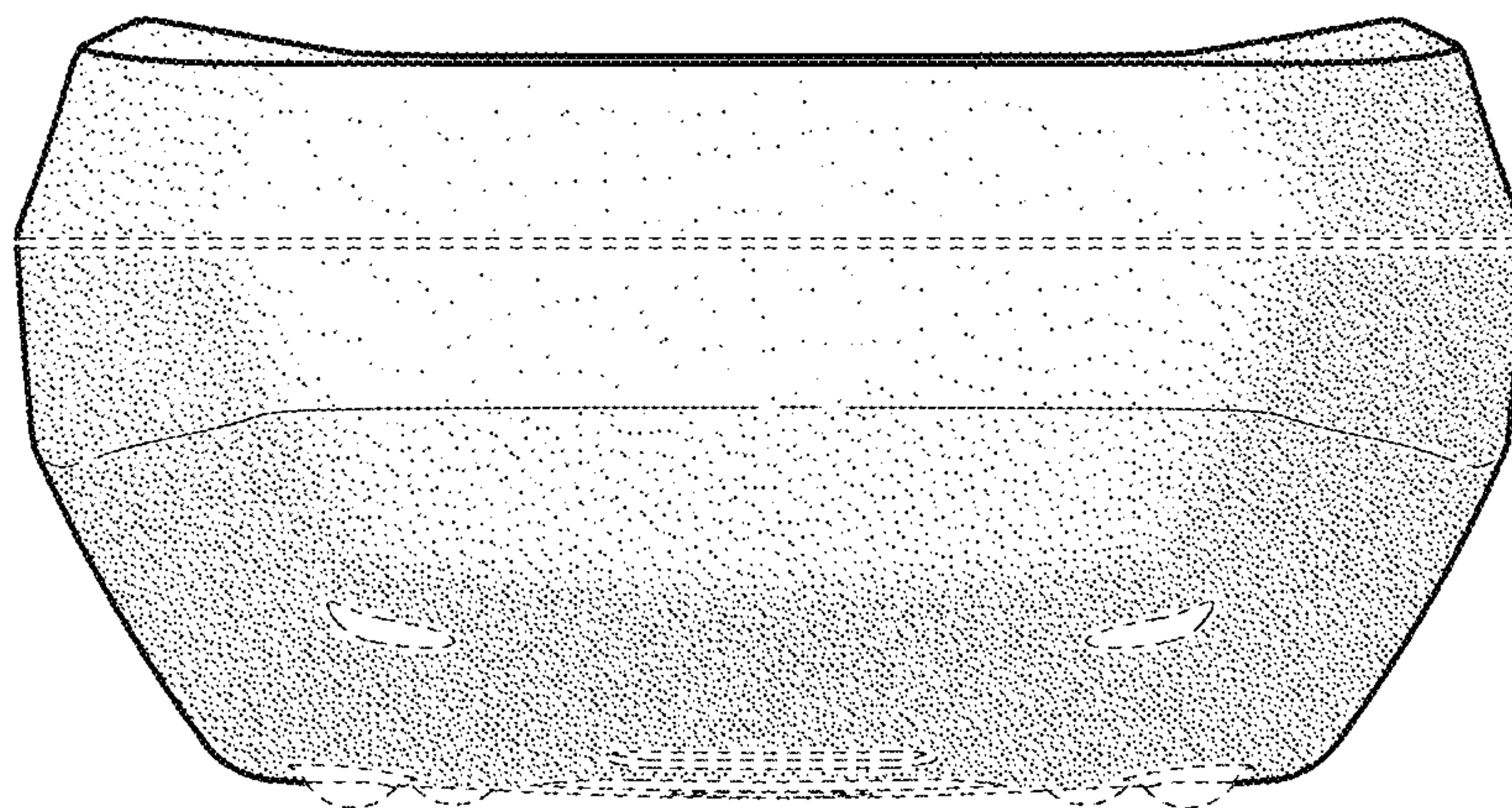


FIG. 8

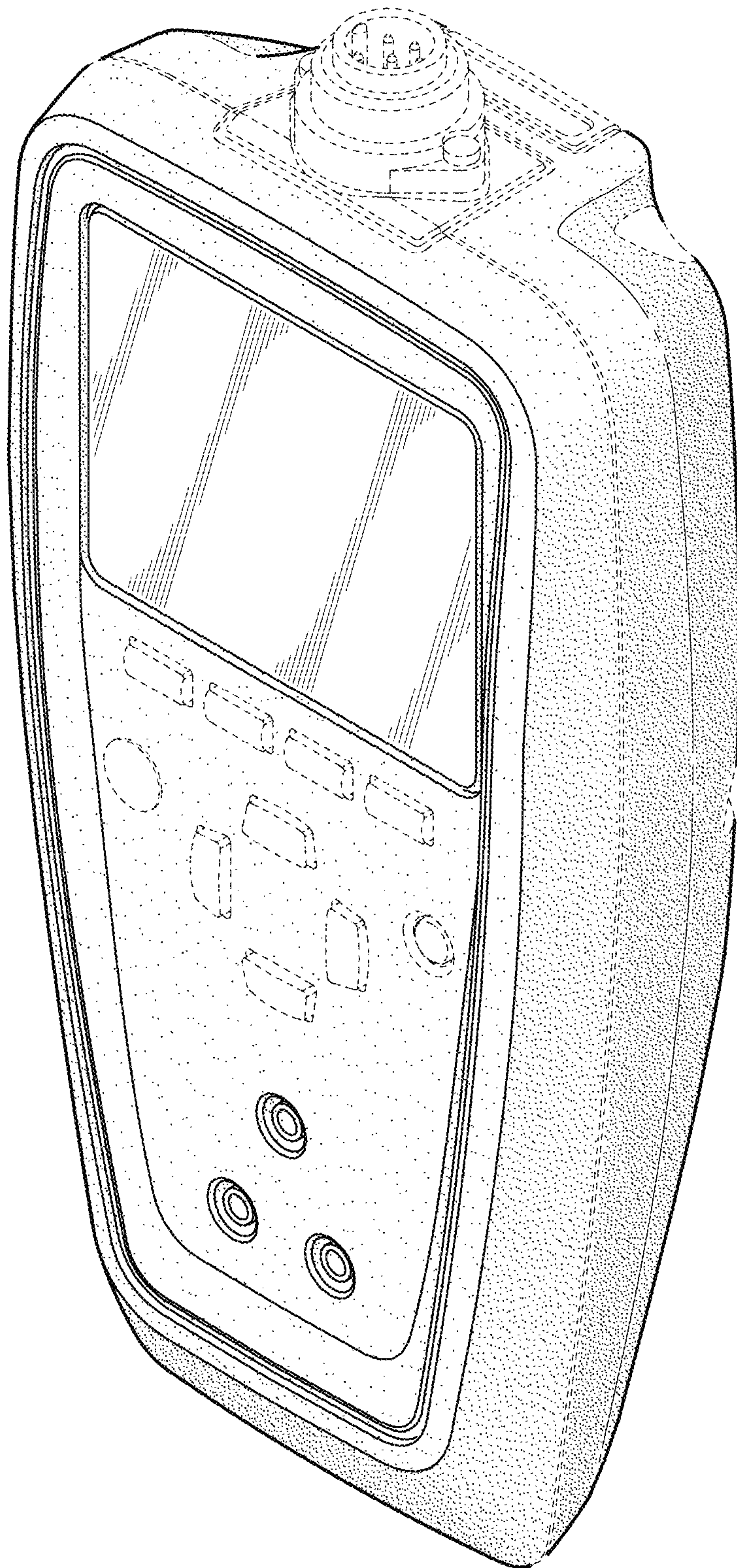


FIG. 9

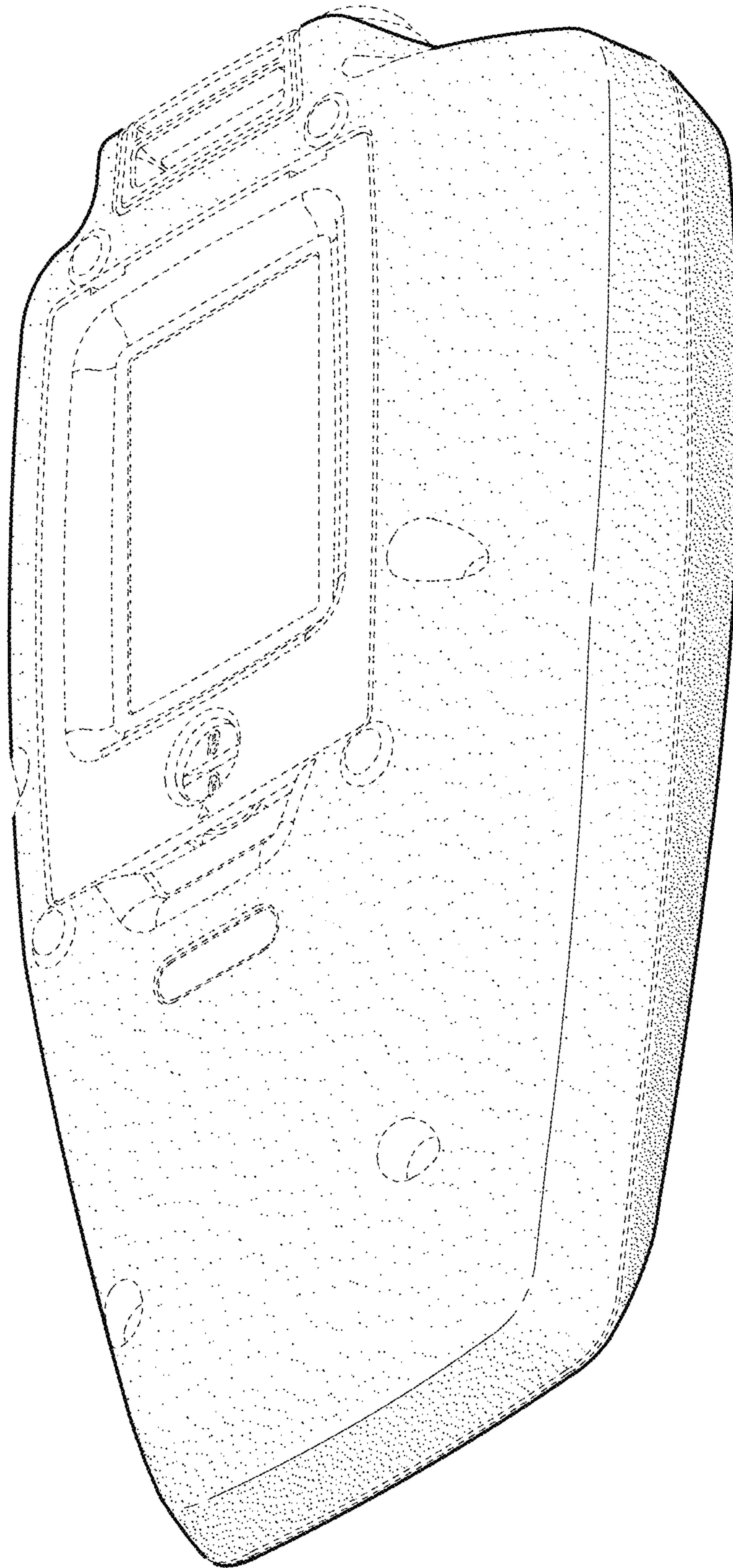


FIG. 10

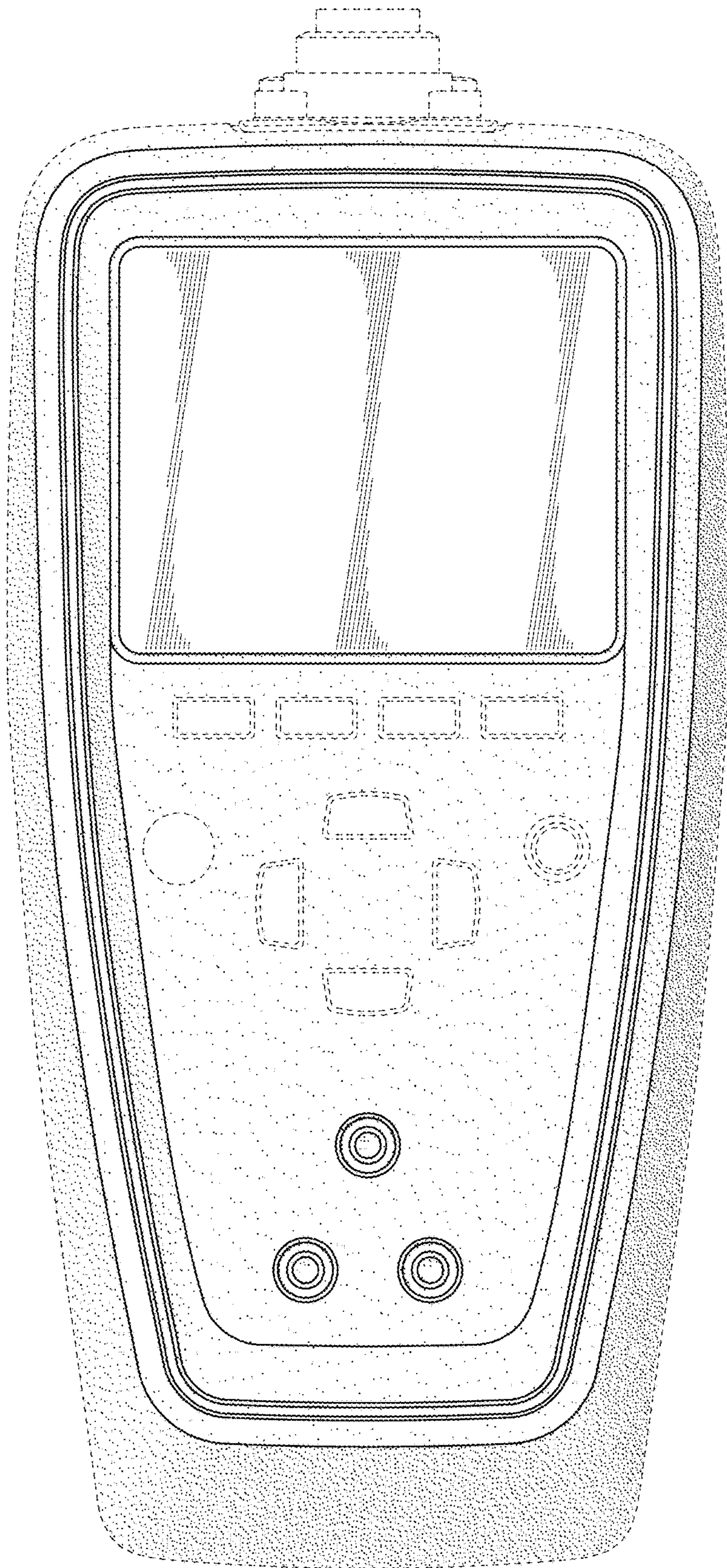


FIG. 11

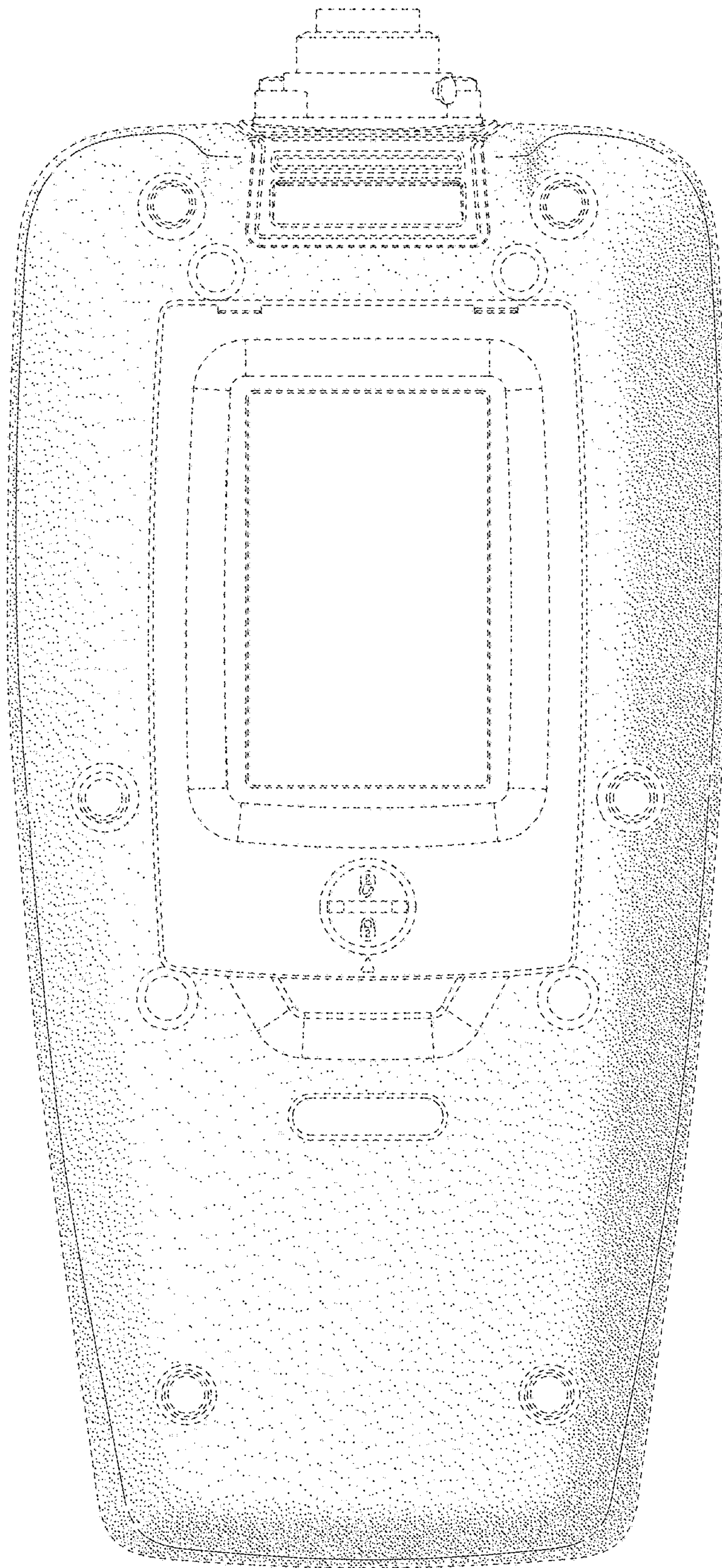


FIG. 12

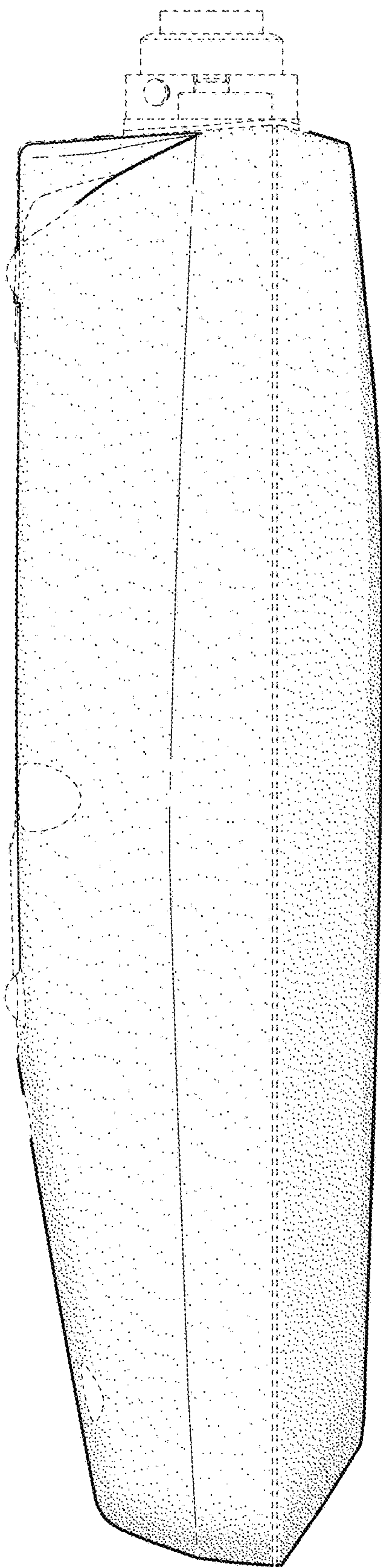


FIG. 13

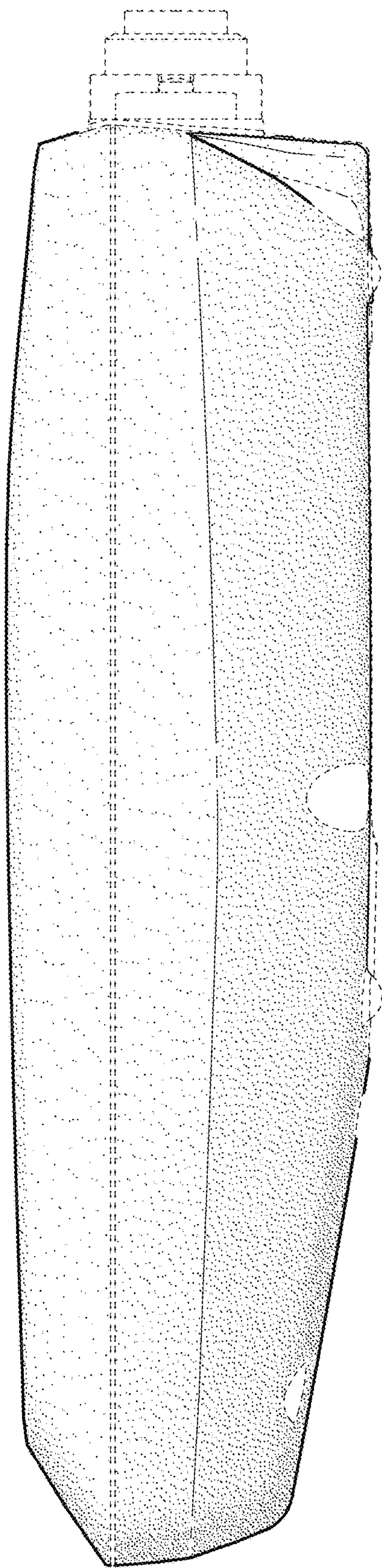


FIG. 14

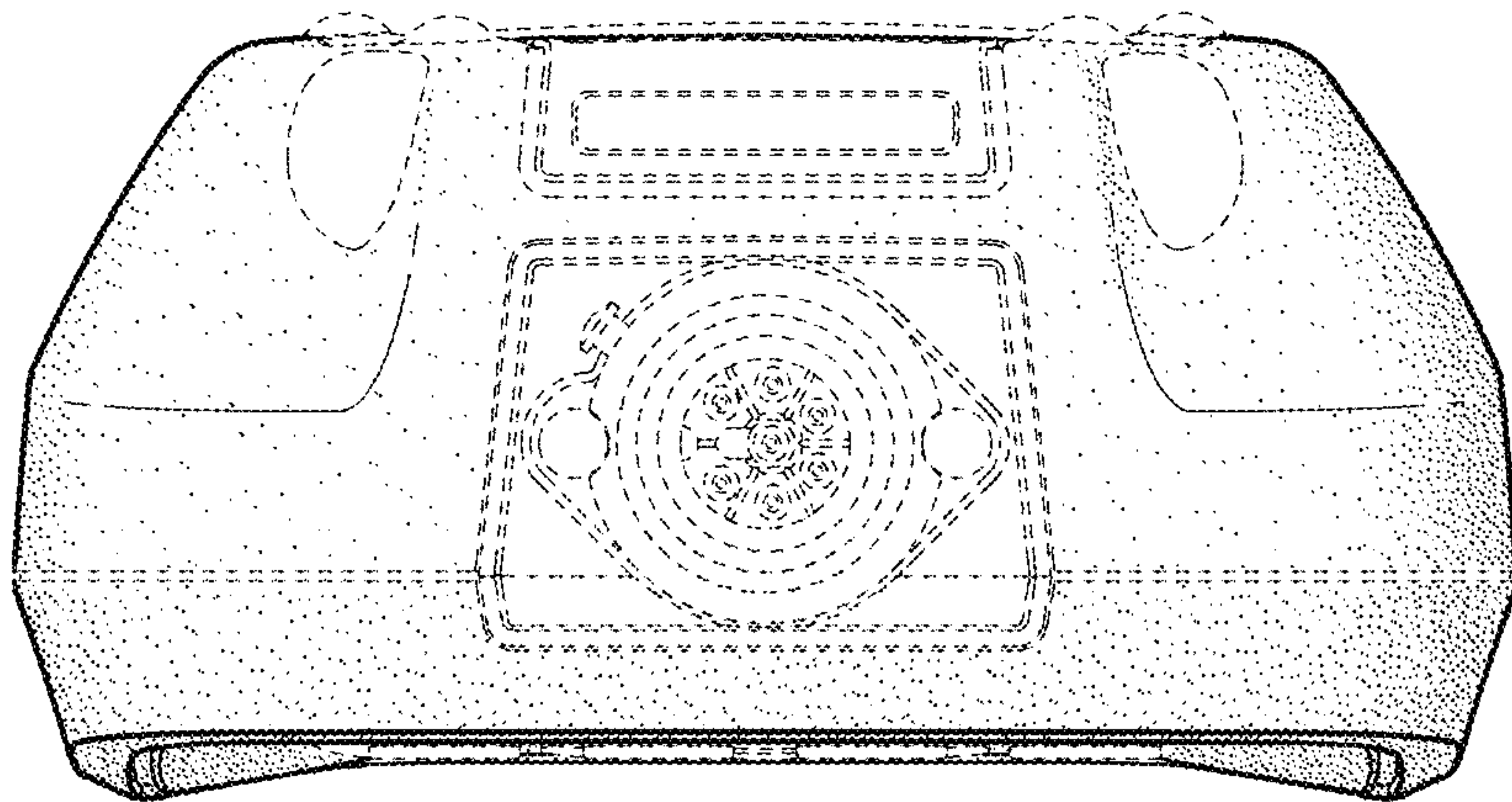


FIG. 15

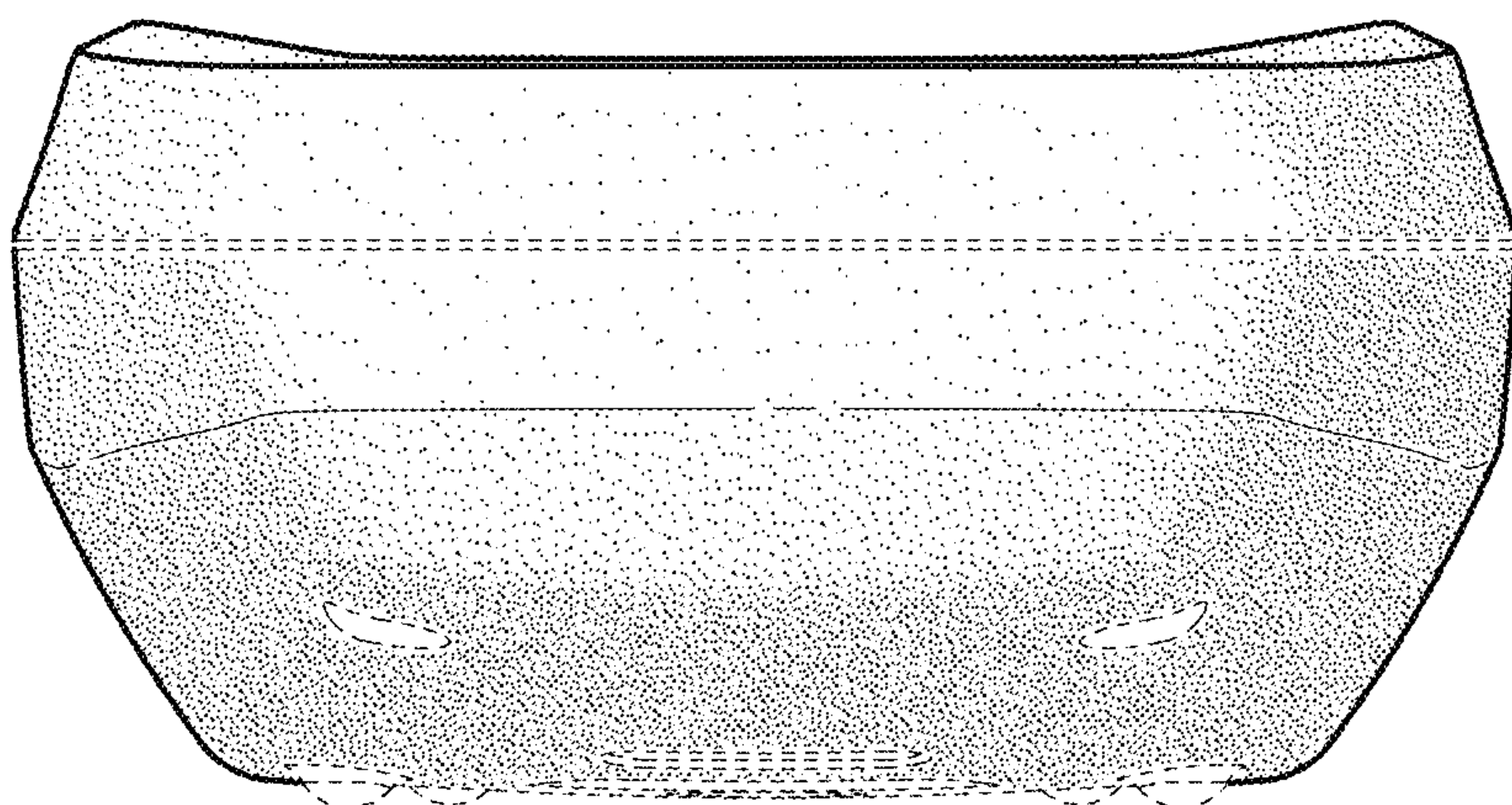


FIG. 16

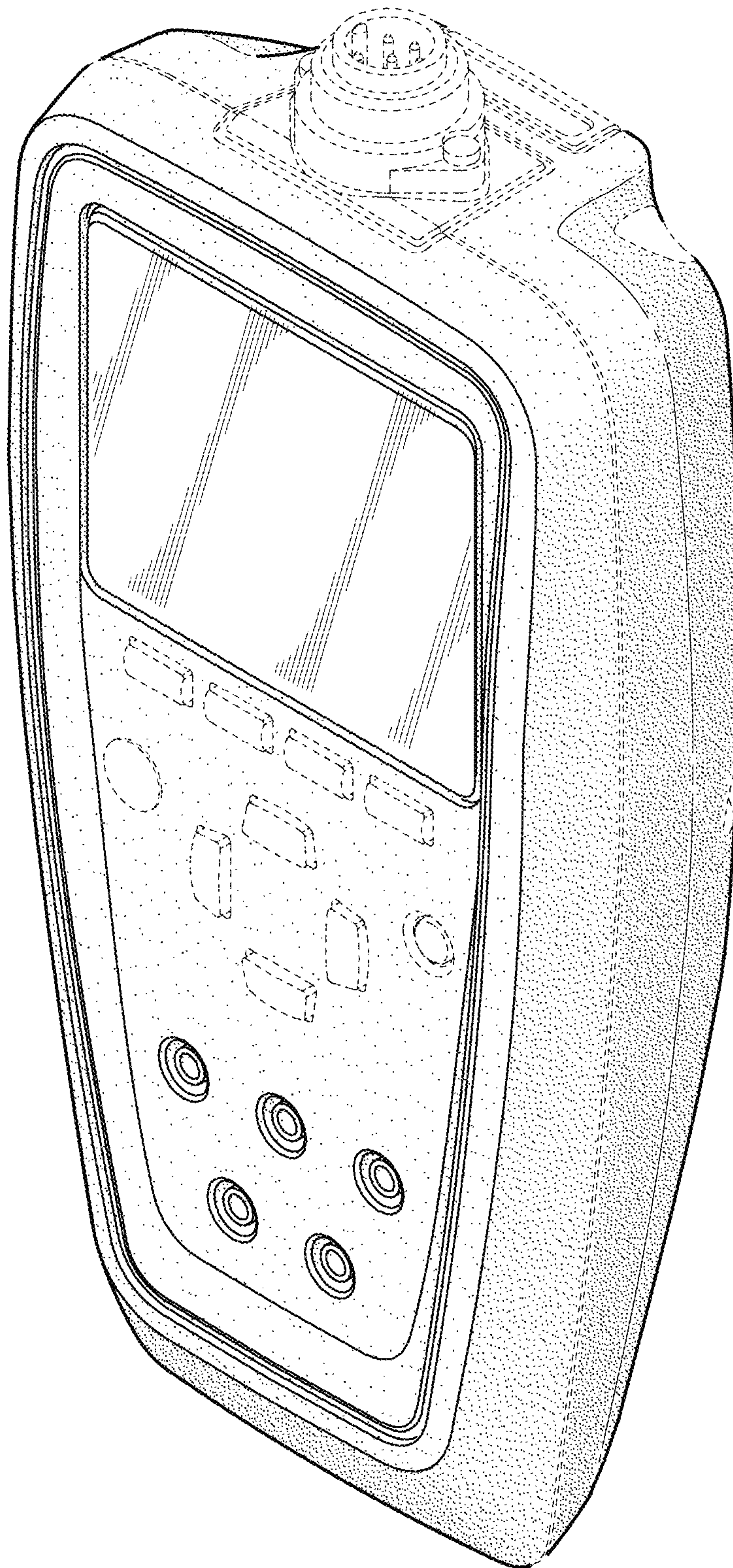


FIG. 17

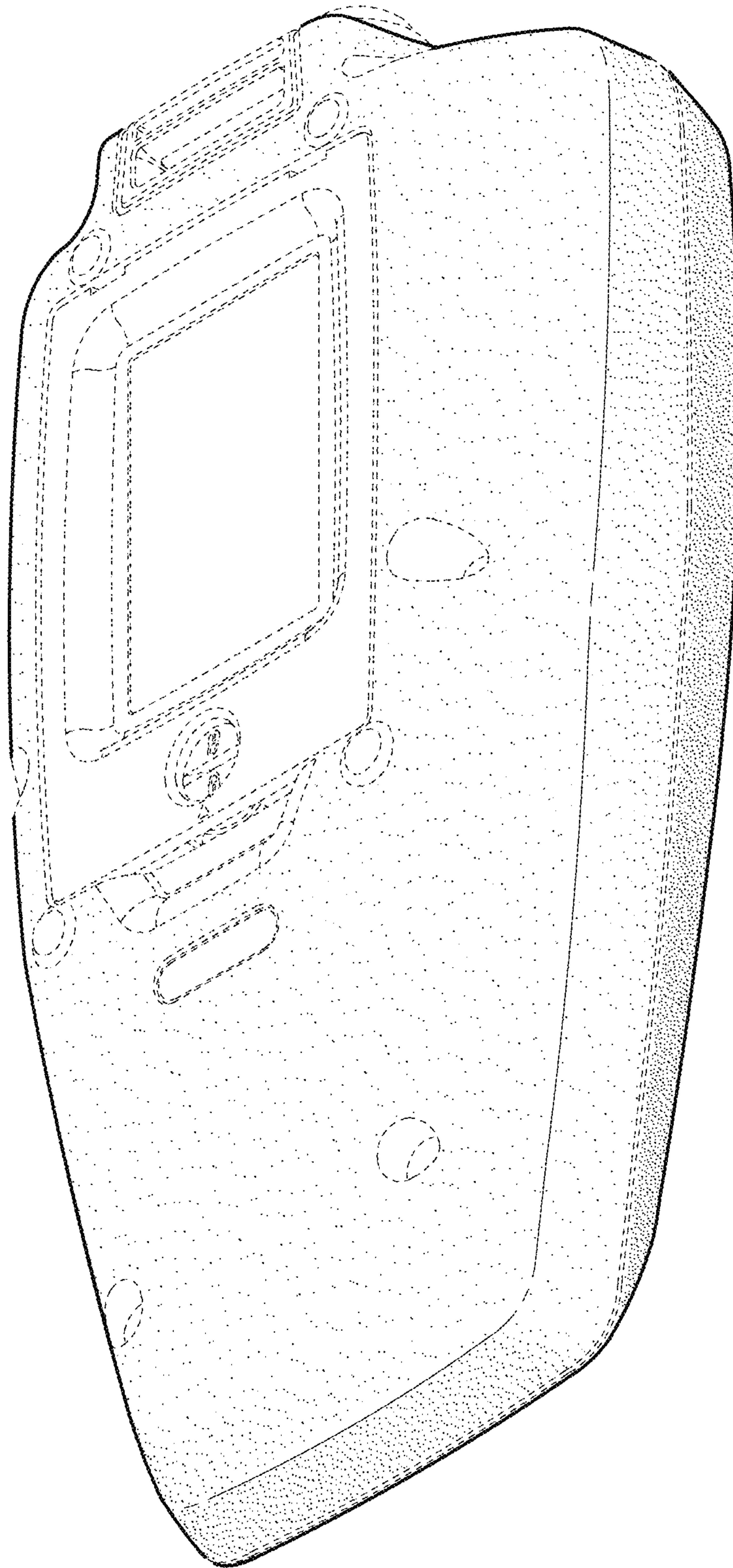


FIG. 18

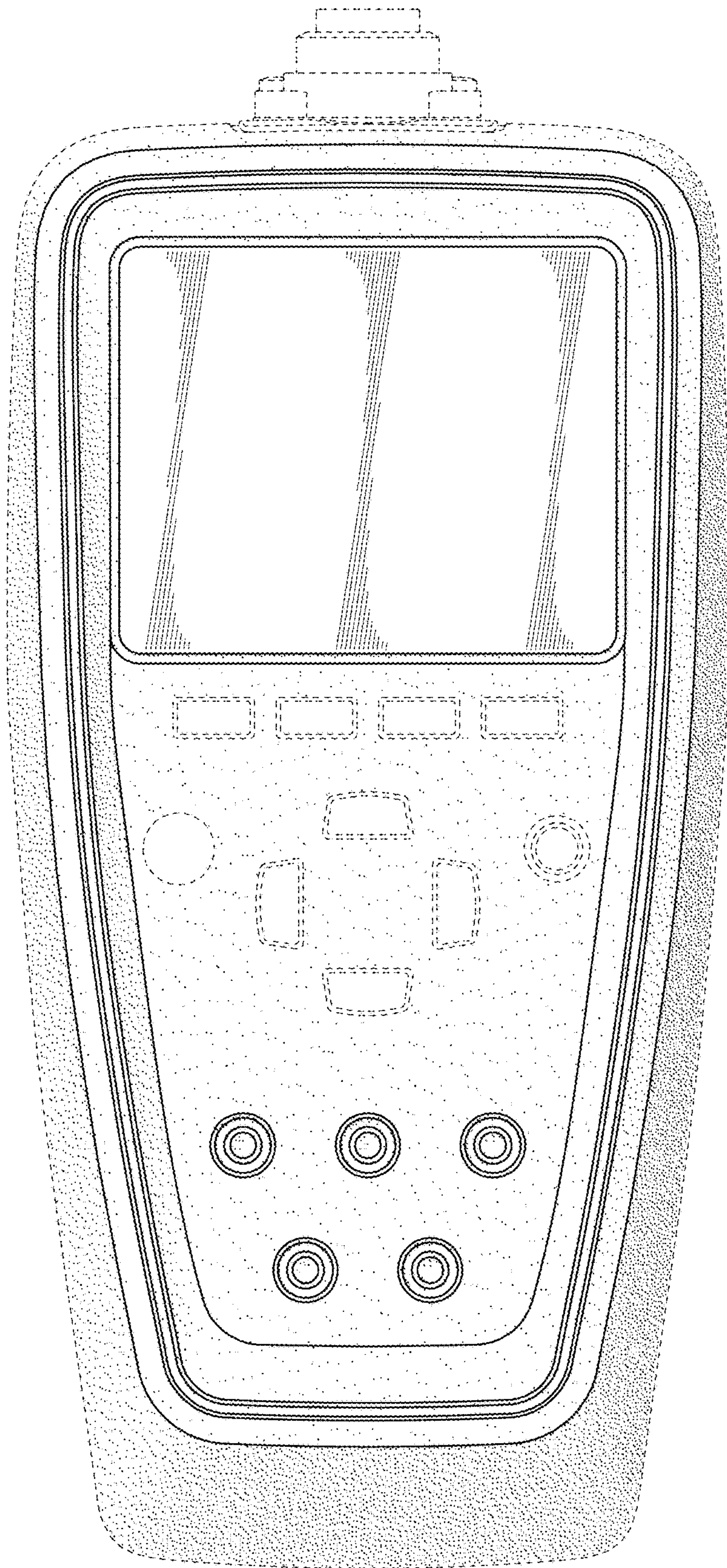


FIG. 19

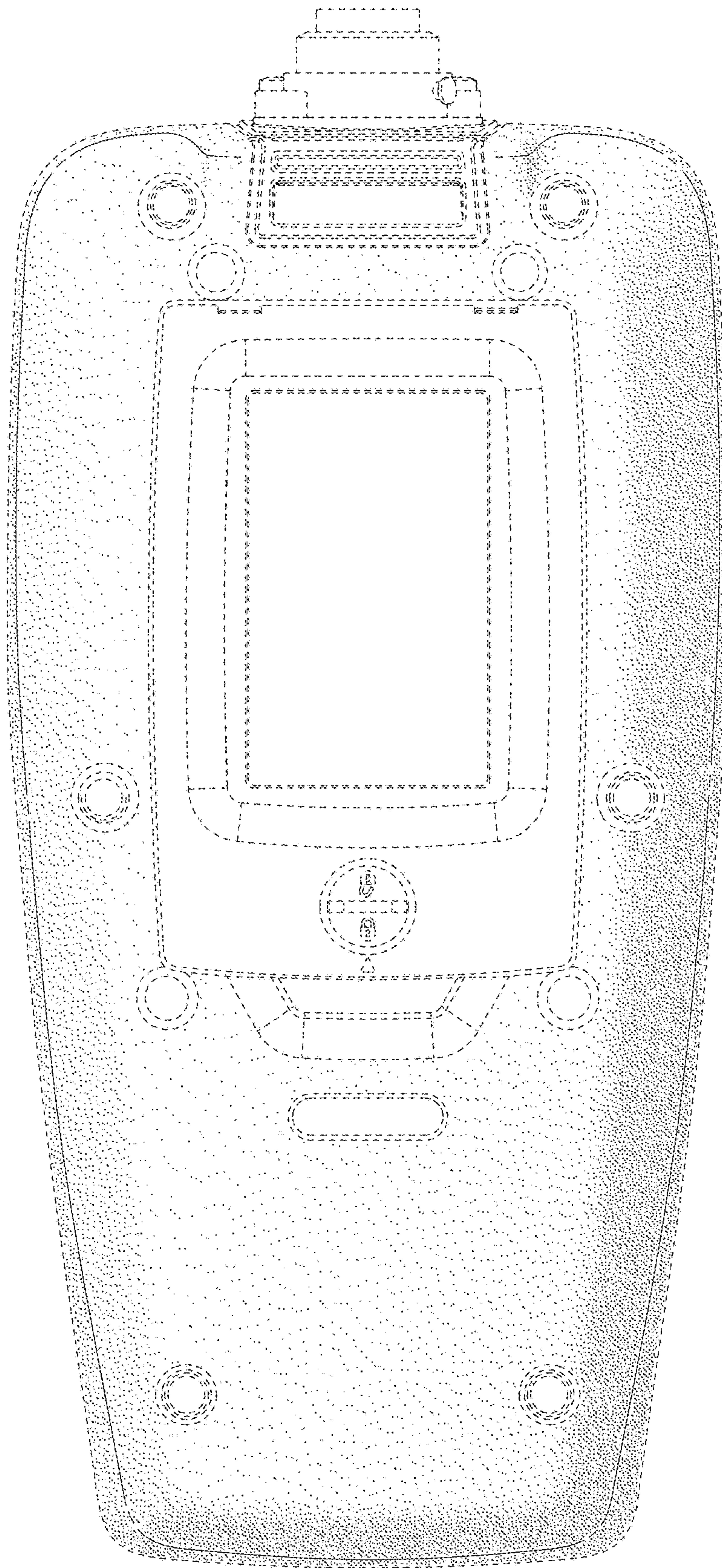


FIG. 20

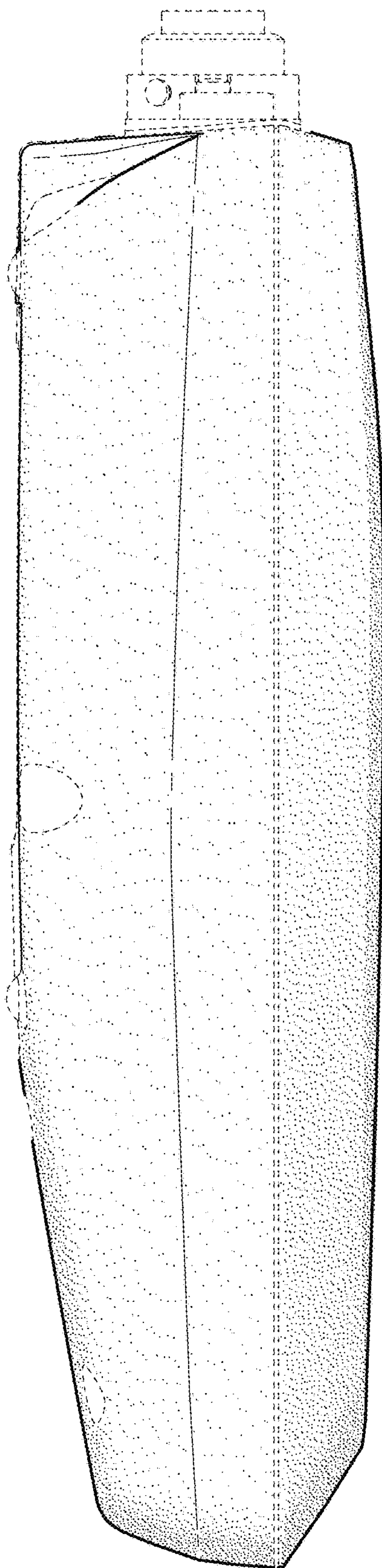


FIG. 21

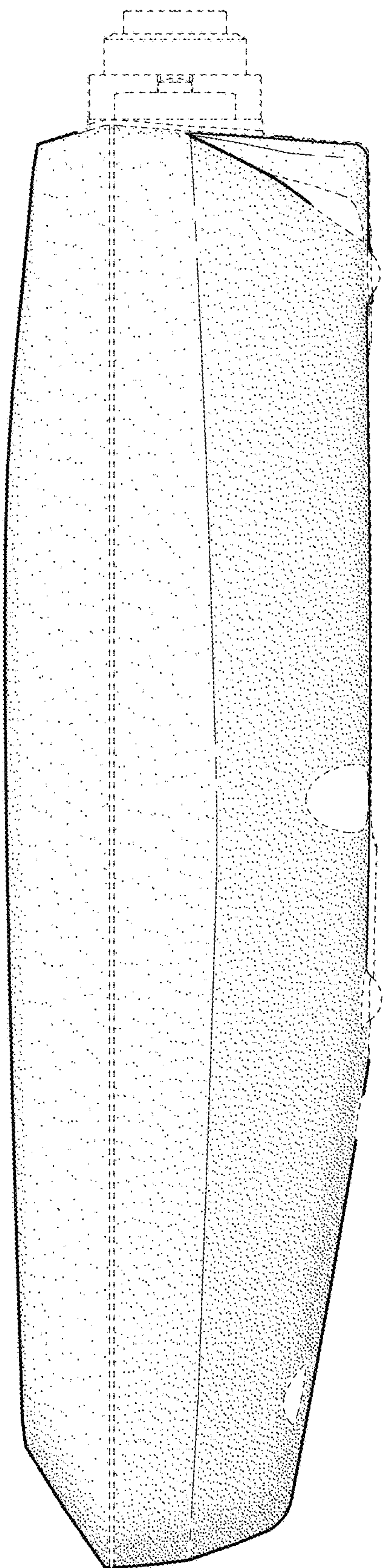


FIG. 22

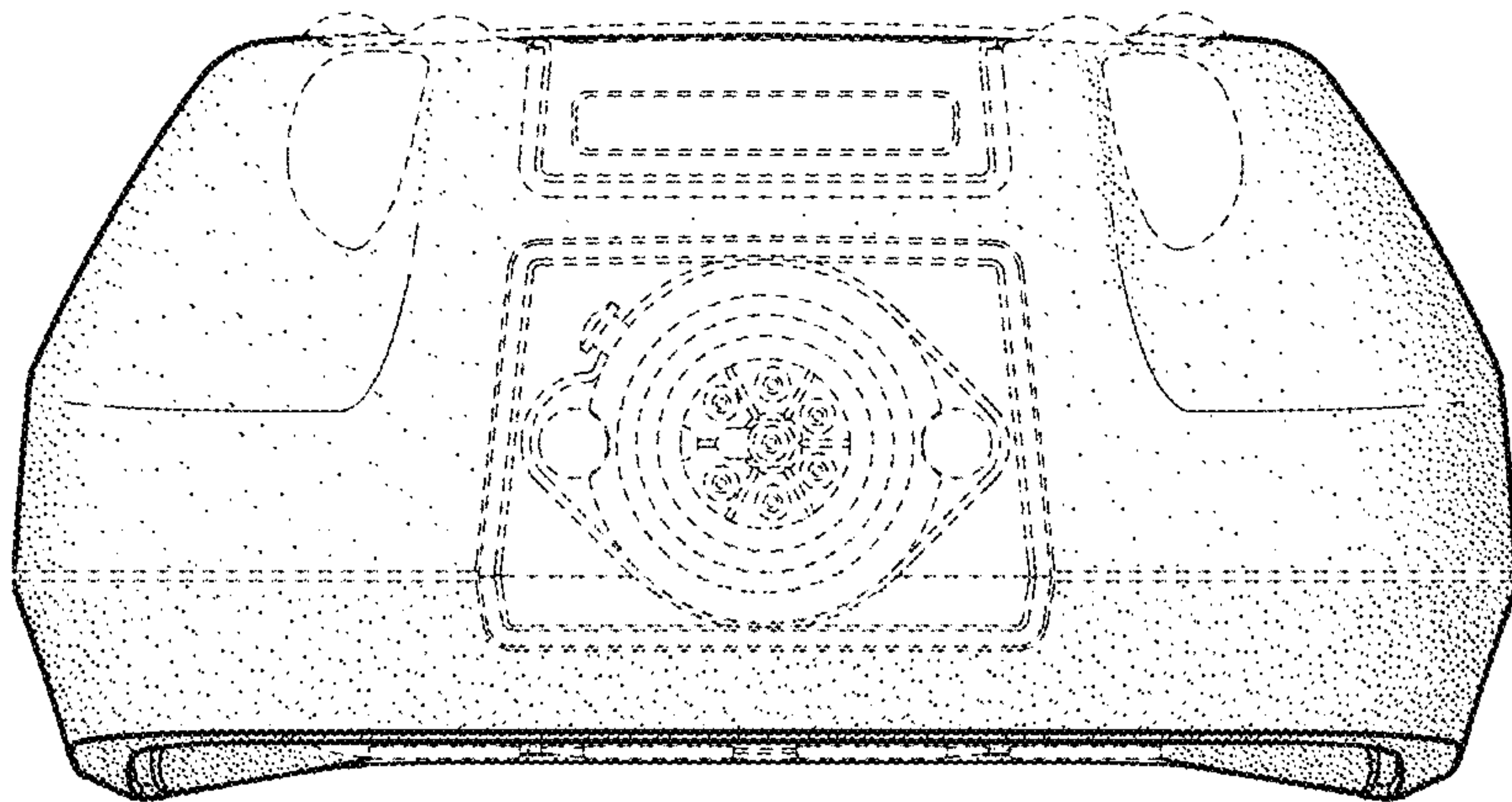


FIG. 23

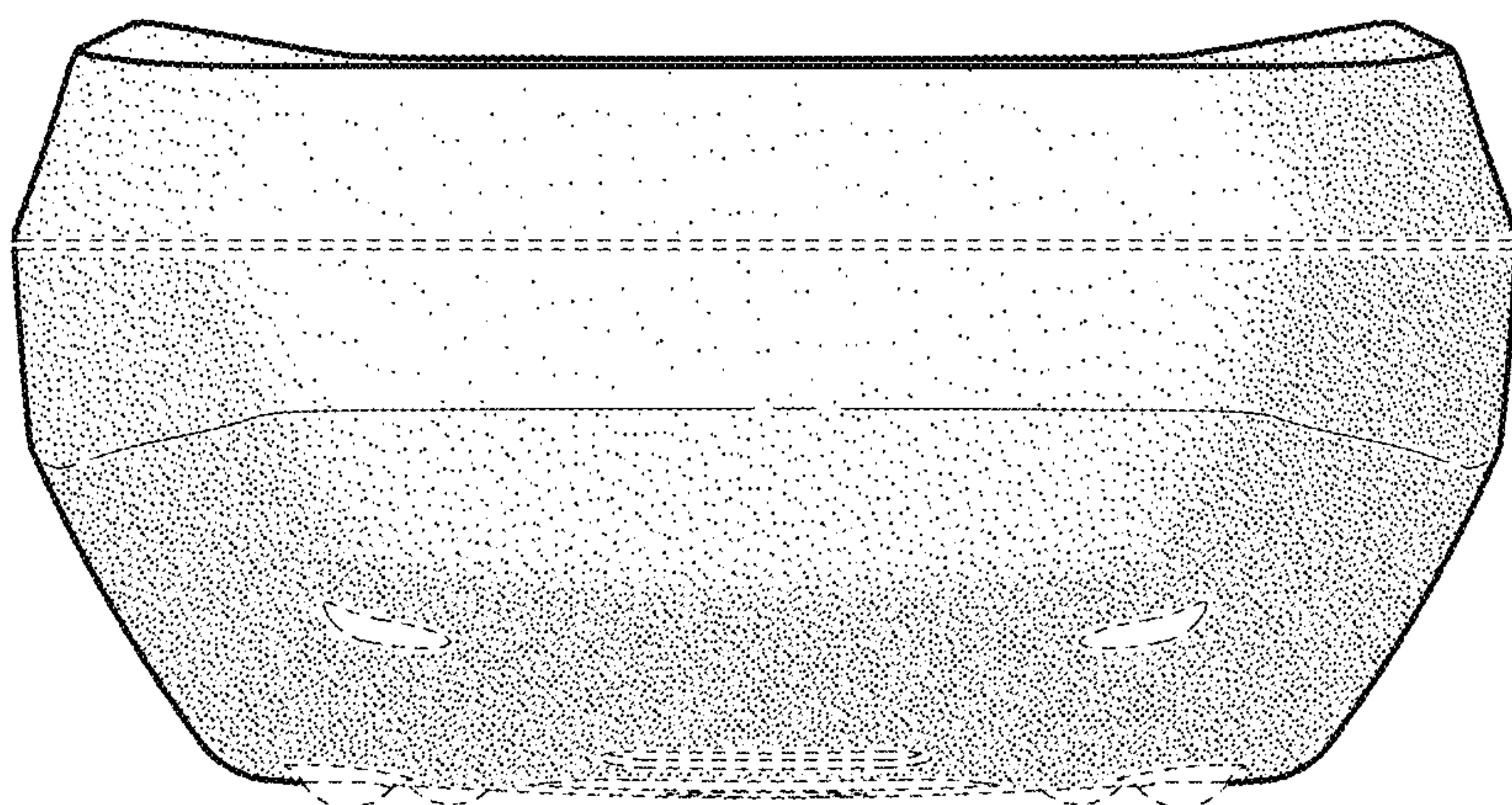


FIG. 24