



US0D1101930S

(12)

United States Design Patent

Di Castri et al.

(10) Patent No.: US D1,101,930 S

(45) Date of Patent: ** Nov. 11, 2025

(54) ELECTRONIC MODULE FOR METERED DOSE INHALERS

(71) Applicant: CHIESI FARMACEUTICI S.P.A.,
Parma (IT)

(72) Inventors: Marco Di Castri, Collecchio (IT); Alan Tweedie, Chepstow (GB); Daniel Higgins, Blagdon (GB); George Watts, Bristol (GB); Ben Cullis-Watson, Cambridge (GB); Colin Mitchell, Seaford (GB)

(73) Assignee: CHIESI FARMACEUTICI S.P.A.,
Parma (IT)

(**) Term: 15 Years

(21) Appl. No.: 29/912,001

(22) Filed: Sep. 12, 2023

(30) Foreign Application Priority Data

Mar. 14, 2023 (EM) 015014530-0001

Mar. 14, 2023 (EM) 015014530-0002

(51) LOC (15) Cl. 29-02

(52) U.S. Cl.

USPC D24/110

(58) Field of Classification Search

USPC D24/108, 110, 110.5, 110.6, 127, 164;
D27/164-167

CPC A61M 15/00; A61M 15/002; A61M 15/0065; A61M 15/0025; A61M 15/0068

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

D480,475 S * 10/2003 King D24/110

D529,605 S * 10/2006 Huxham D24/110

D548,330 S * 8/2007 Cox D24/110

D639,931 S * 6/2011 Anderson D24/110

D882,064 S * 4/2020 Sutherland D24/127

D882,754 S * 4/2020 Turner D24/110

D947,360 S * 3/2022 Cotton D24/127

D950,705 S * 5/2022 Zhang D24/110

D959,641 S * 8/2022 Biswas D24/110

D991,440 S * 7/2023 Hoshino D24/127

D998,783 S * 9/2023 Baddeley D24/110

(Continued)

FOREIGN PATENT DOCUMENTS

GB 2000578 * 4/1990

OTHER PUBLICATIONS

Spirocco Device, Online, Published date 2018, Retrieved on Apr. 4, 2025 from URL: <https://competition.adesignaward.com/gooddesign.php?ID=64240> (Year: 2018).*

Primary Examiner — Michael C Stout

Assistant Examiner — Eric Eldone Tormanen

(74) Attorney, Agent, or Firm — ROTHWELL, FIGG, ERNST & MANBECK, P.C.

(57) CLAIM

The ornamental design for an electronic module for metered dose inhalers, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of the rear, top, and left side of the module;

FIG. 2 is a top view of the module;

FIG. 3 is a bottom view of the module;

FIG. 4 is a rear view of the module;

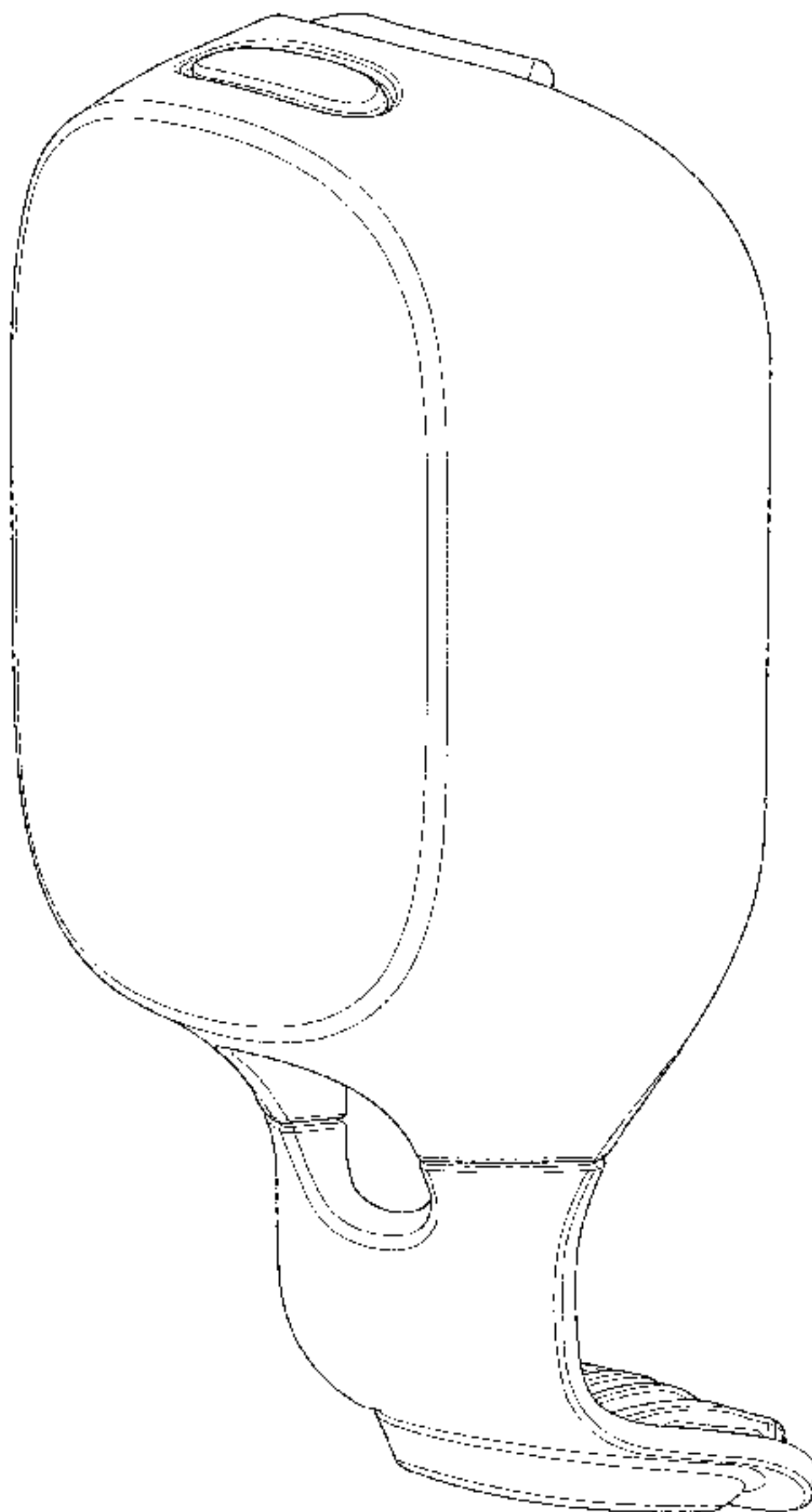
FIG. 5 is a front view of the module;

FIG. 6 is a right side view of the module; and,

FIG. 7 is a left side view of the module.

The broken lines shown in the figures depict portions of the electronic module for metered dose inhalers that form no part of the claimed design.

1 Claim, 7 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

D1,006,212	S	*	11/2023	Helminger	D24/110
D1,046,114	S	*	10/2024	Markey	D24/110
D1,061,877	S	*	2/2025	Markey	D24/110.5
2017/0325734	A1	*	11/2017	Sutherland	A61M 15/0041
2018/0228988	A1	*	8/2018	Buck	A61K 31/573
2019/0105450	A1	*	4/2019	Sutherland	A61M 15/009
2024/0148989	A1	*	5/2024	Koblenski	A61M 15/009

* cited by examiner

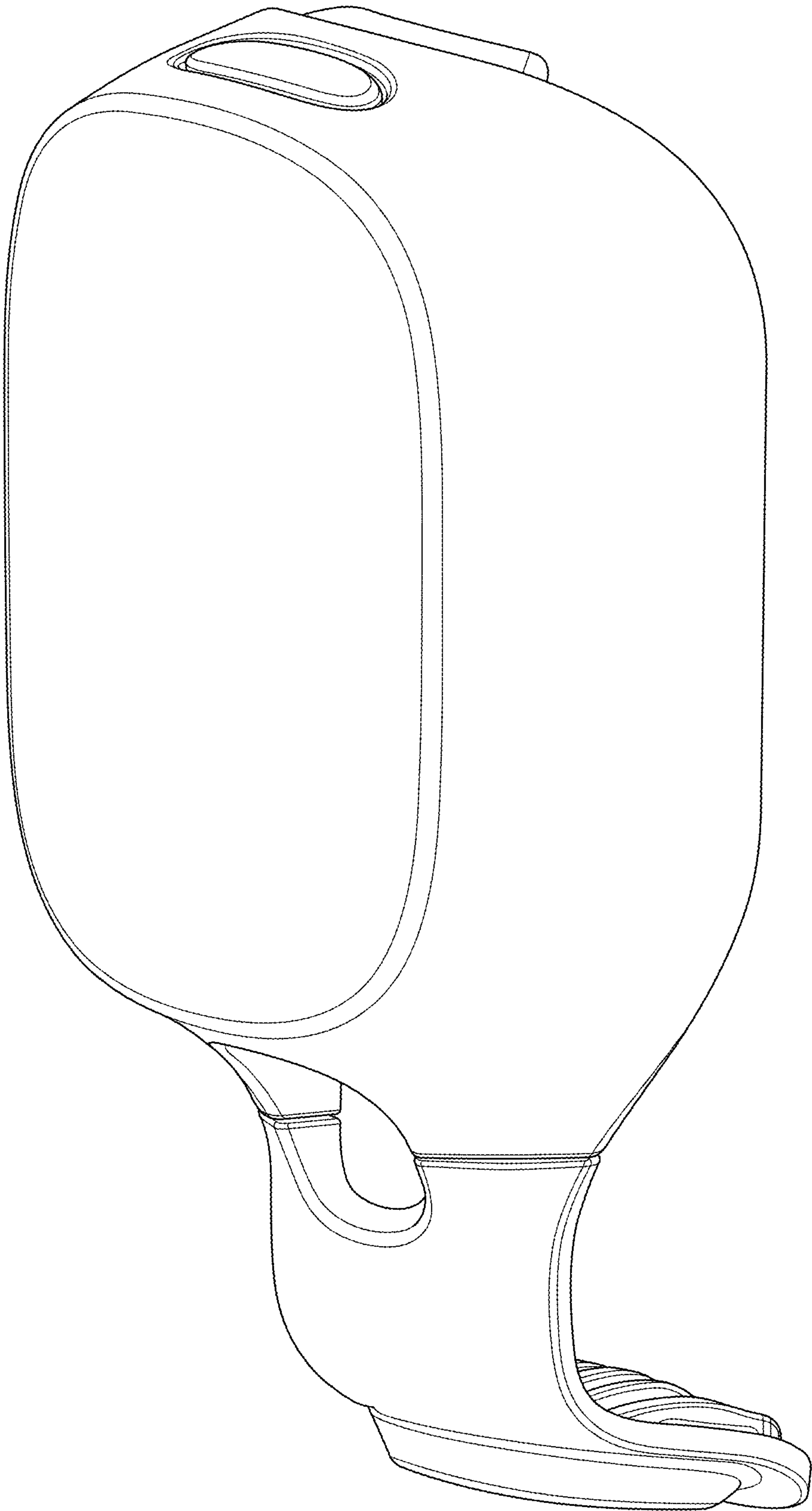


FIG. 1

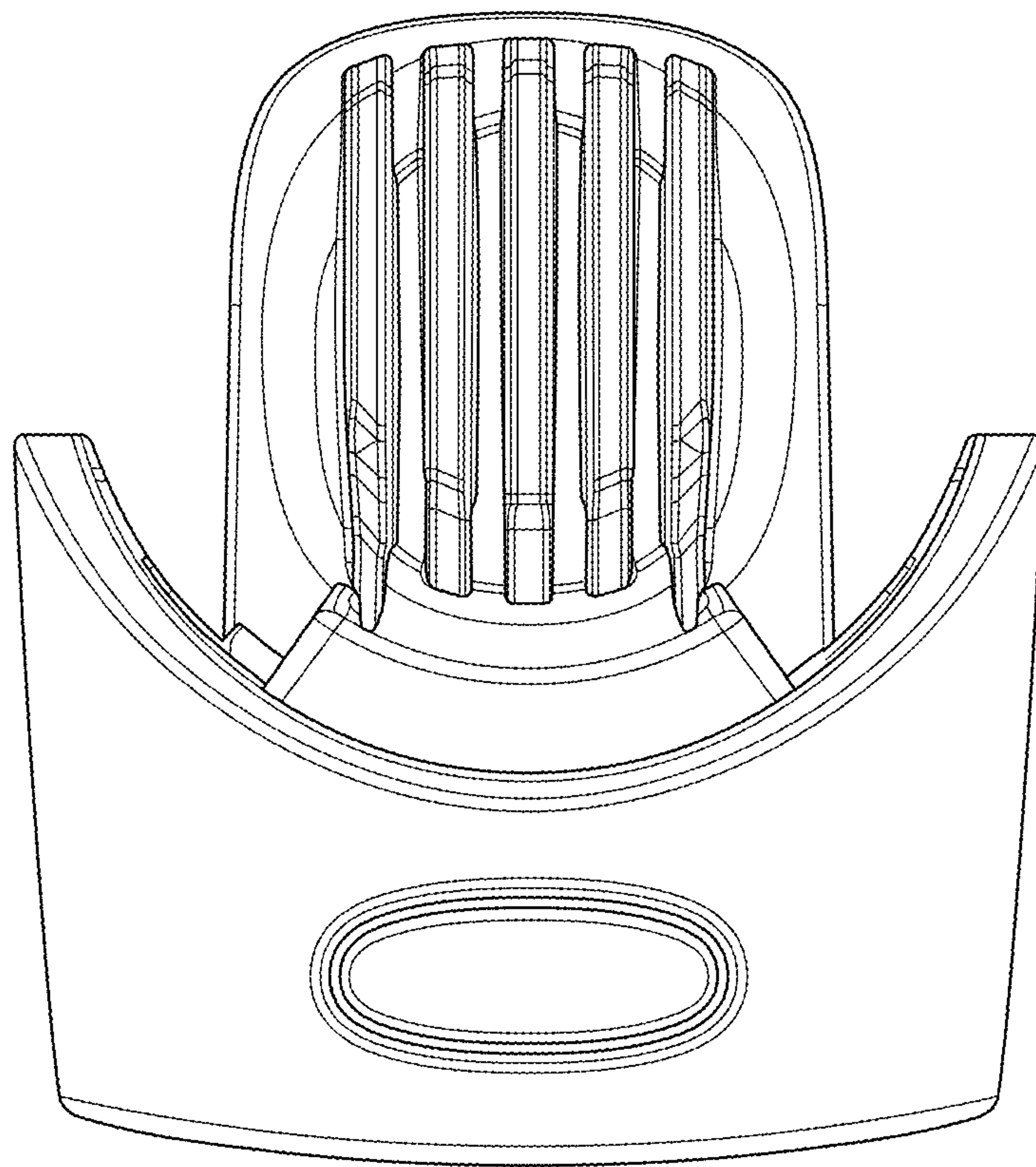


FIG. 2

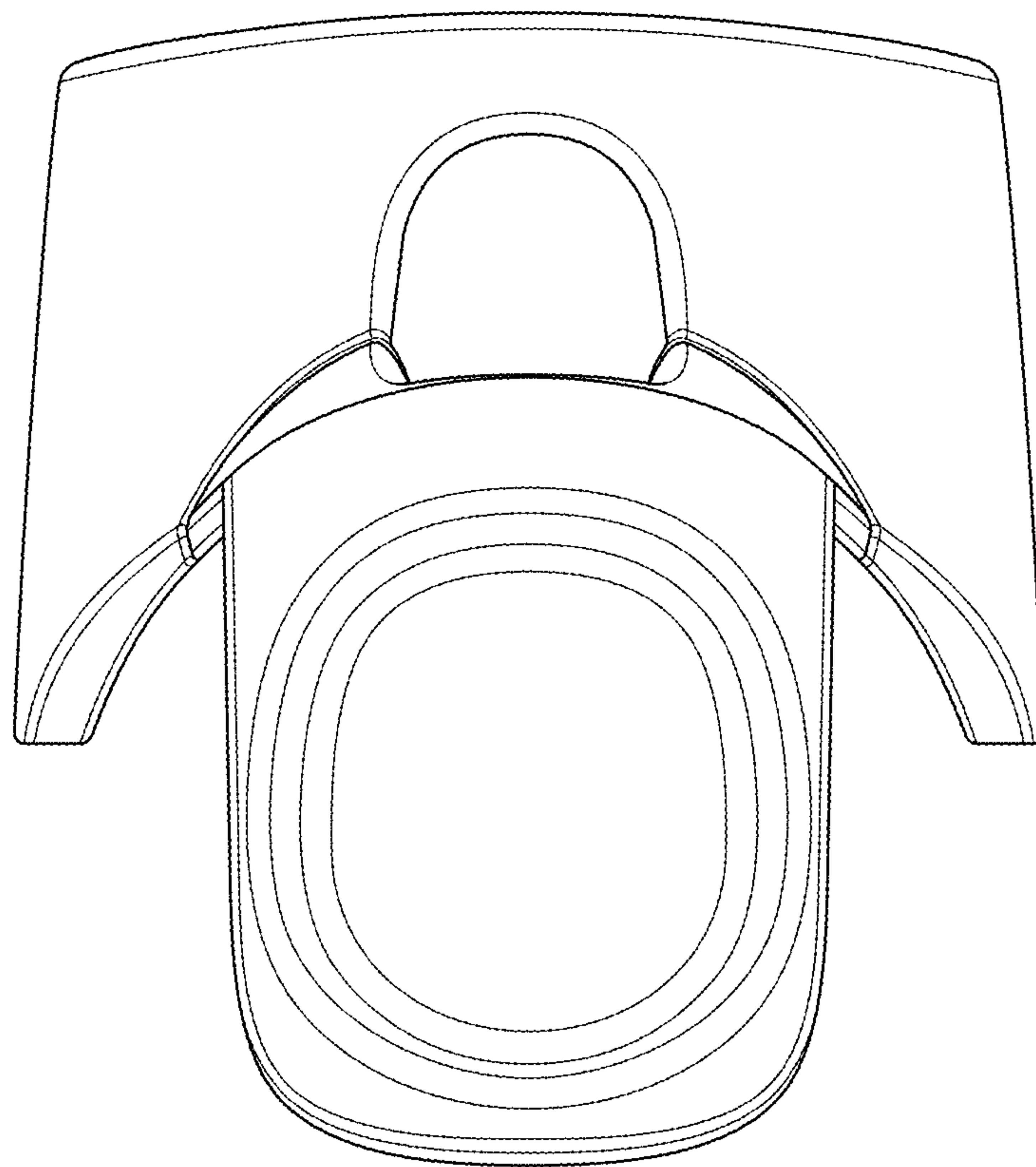


FIG. 3

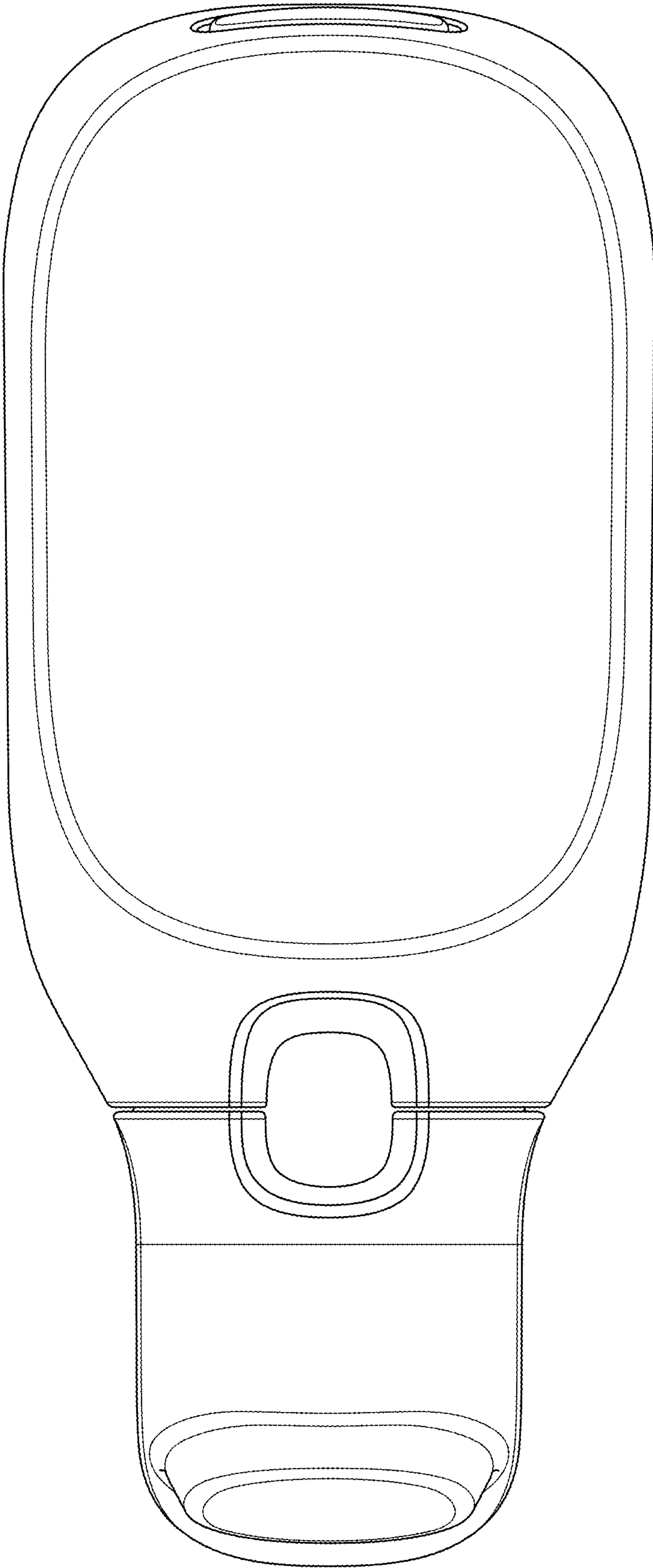


FIG. 4

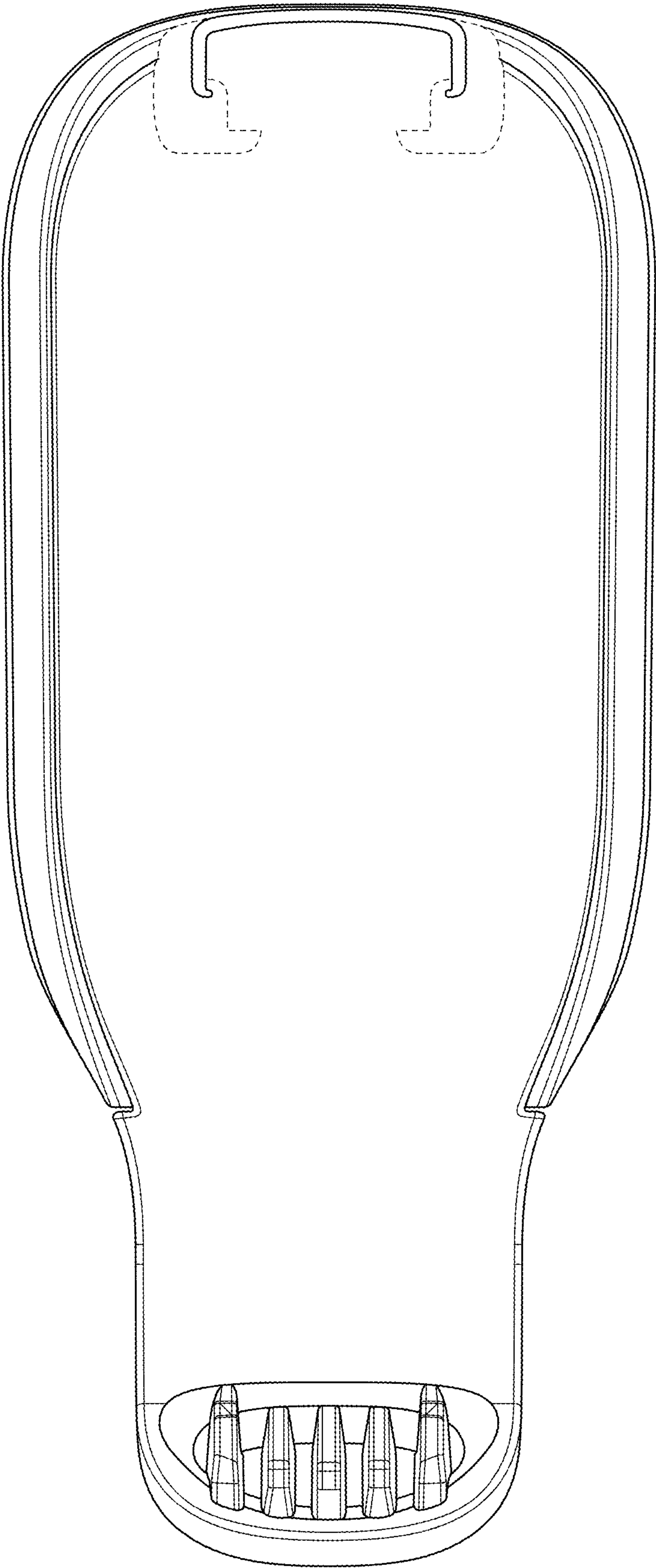


FIG. 5

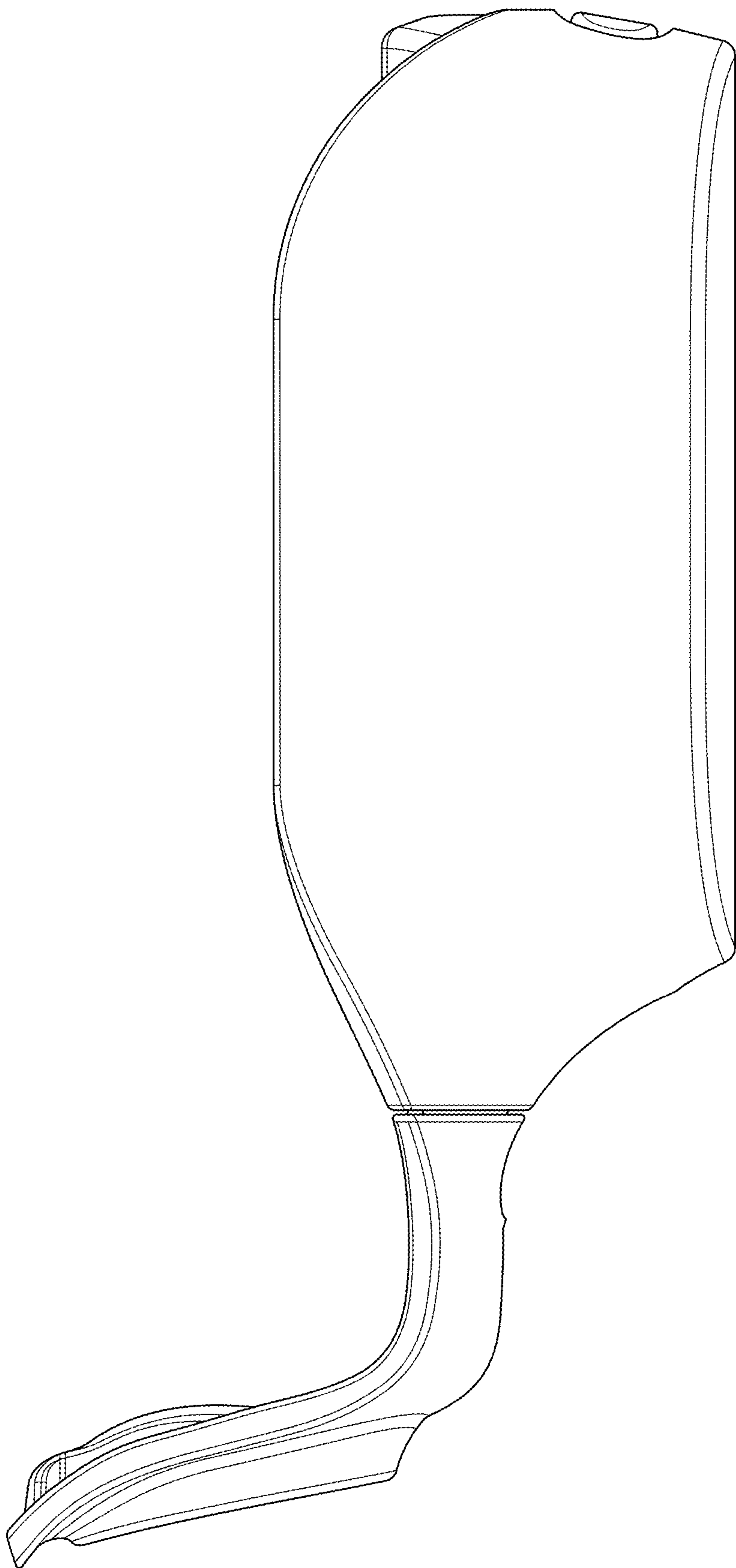


FIG. 6

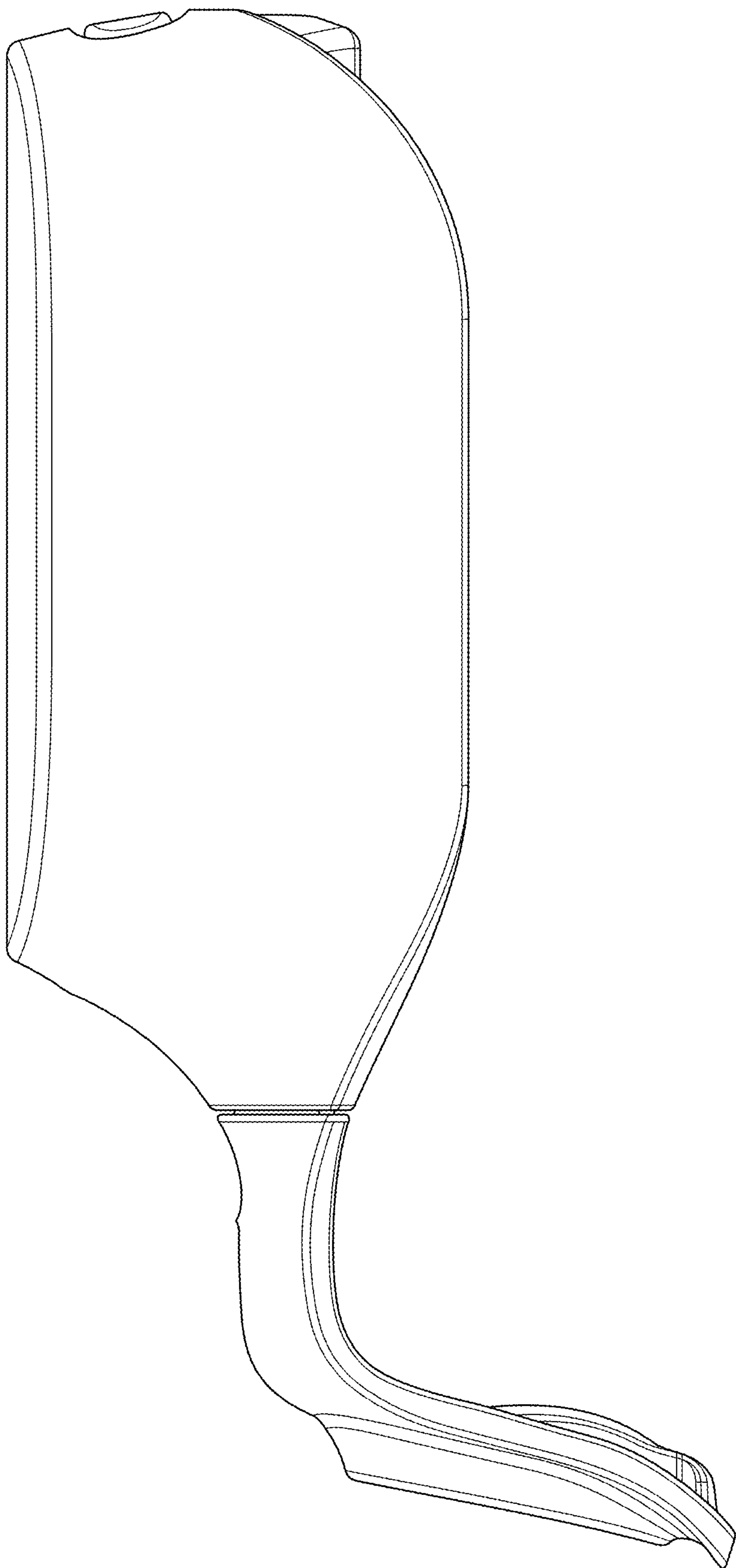


FIG. 7