



US0D1022229S

(12)

United States Design Patent
Yu

(10)

Patent No.: US D1,022,229 S

(45)

Date of Patent: ** Apr. 9, 2024

(54) **HAND WARMER**

(71) Applicant: **Shenzhen Maimi Electronic Technology Co., Ltd., Shenzhen (CN)**

(72) Inventor: **Yatao Yu, Chenzhou (CN)**

(73) Assignee: **Shenzhen Maimi Electronic Technology Co., Ltd., Shenzhen (CN)**

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

(21) Appl. No.: **29/880,615**

(22) Filed: **Jul. 25, 2023**

(51) **LOC (14) Cl. 24-01**

(52) **U.S. Cl.**
USPC **D24/206**

(58) **Field of Classification Search**
USPC D24/200, 206–208, 214, 188–192;
D13/103, 107–108, 118–119;
D14/432–434, 341
CPC A61F 2007/0036; A61F 2007/0086; A61F 2007/0088; A61F 2007/0089; A61F 2007/0056; A61F 2007/0075; A61F 2007/0098; A61F 7/00; A61F 7/10; A61F 7/02; A61F 7/0001; A61F 7/007; A61F 7/08; A61F 7/0097; A61F 7/034; H05B 3/34; H05B 3/342; H05B 3/0004; H05B 3/0019; H05B 3/0085; H05B 1/025; H05B 2203/003–006; H05B 2203/014
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D682,197 S	*	5/2013	Leung		D13/103
D861,601 S	*	10/2019	Lin		D13/108
D878,617 S	*	3/2020	Zhu		D24/206
D901,027 S	*	11/2020	Luo		D24/206
D911,954 S	*	3/2021	Xie		D13/103
D912,261 S	*	3/2021	Tang		D24/206

D919,106 S	*	5/2021	Zhu		D24/206
D919,824 S	*	5/2021	Zhu		D24/206
D931,480 S	*	9/2021	Pi		D24/206

(Continued)

FOREIGN PATENT DOCUMENTS

CN	306277142	*	1/2021
CN	306409876	*	3/2021

(Continued)

OTHER PUBLICATIONS

Heppell, Best waterproof hand warmers—7 of the best rechargeable options, Published on: Dec. 22, 2022, [yachtingworld.com](https://www.yachtingworld.com/yachts-and-gear/best-waterproof-hand-warmers-7-rechargeable-options-142076), Retrieved from Internet: <https://www.yachtingworld.com/yachts-and-gear/best-waterproof-hand-warmers-7-rechargeable-options-142076> (Year: 2022).*

(Continued)

Primary Examiner — Jennifer L Rempfer
Assistant Examiner — Edward P Jones
(74) *Attorney, Agent, or Firm* — Nitin Kaushik

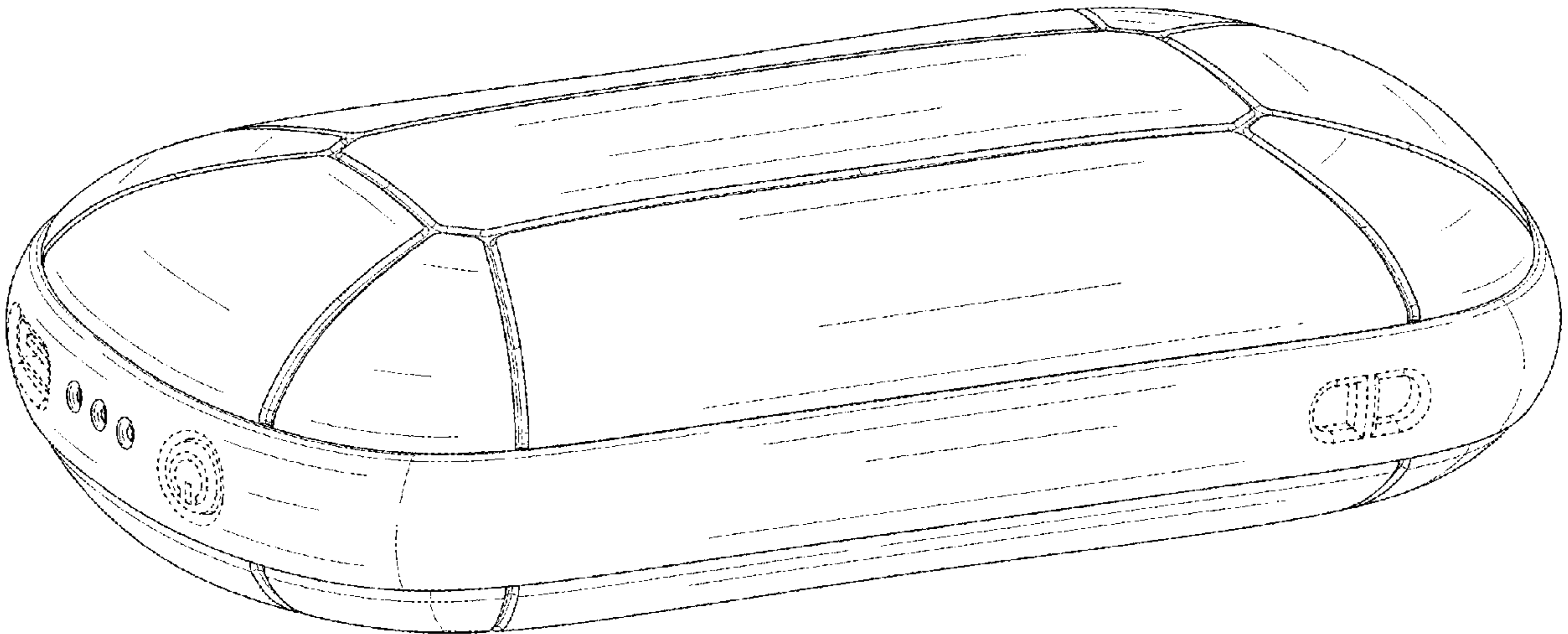
(57) **CLAIM**

The ornamental design for a hand warmer, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a hand warmer, showing my new design;
FIG. 2 is a rear perspective view thereof;
FIG. 3 is a front view thereof;
FIG. 4 is a rear view thereof;
FIG. 5 is a left side view thereof;
FIG. 6 is a right side view thereof;
FIG. 7 is a top view thereof; and,
FIG. 8 is a bottom view thereof.
The broken lines in the drawings illustrate the portions of the hand warmer, which form no part of the claimed design.

1 Claim, 8 Drawing Sheets



(56) References Cited

U.S. PATENT DOCUMENTS

D955,985 S * 6/2022 Xie D13/108
D976,422 S * 1/2023 Chen D24/206
D977,125 S 1/2023 Chen
D985,784 S * 5/2023 Liu D24/206
D985,785 S * 5/2023 Xiao D24/206
D989,820 S * 6/2023 Morris D15/90
D1,008,474 S * 12/2023 Yu D24/206
D1,009,286 S * 12/2023 Liu D24/206
2008/0053979 A1 * 3/2008 Toya A61H 23/0263
219/385
2023/0404796 A1 * 12/2023 Zhu A61F 7/007
2023/0422353 A1 * 12/2023 Hu H05B 3/22

FOREIGN PATENT DOCUMENTS

CN 306774686 * 8/2021
CN 307677002 * 11/2022
CN 307710901 * 12/2022
GB 6228951 * 12/2022
GB 6296026 * 7/2023

OTHER PUBLICATIONS

Ocoopa Store, Ocoopa Hand Warmers Rechargeable, Published on:
Sep. 14, 2020, Amazon.com, Retrieved from Internet: <https://www.amazon.com/OCOOPA-Rechargeable-Electric-Reusable-Portable/dp/B08HYRHPW3> (Year: 2020).*

SkyGenius Store, SkyGenius Rechargeable Hand Warmer, Published on: Sep. 17, 2019, Amazon.com, Retrieved from Internet: <https://www.amazon.com/SkyGenius-Rechargeable-Reusable-Electric-Raynauds/dp/B07XZ22LCT?th=1> (Year: 2019).*

* cited by examiner

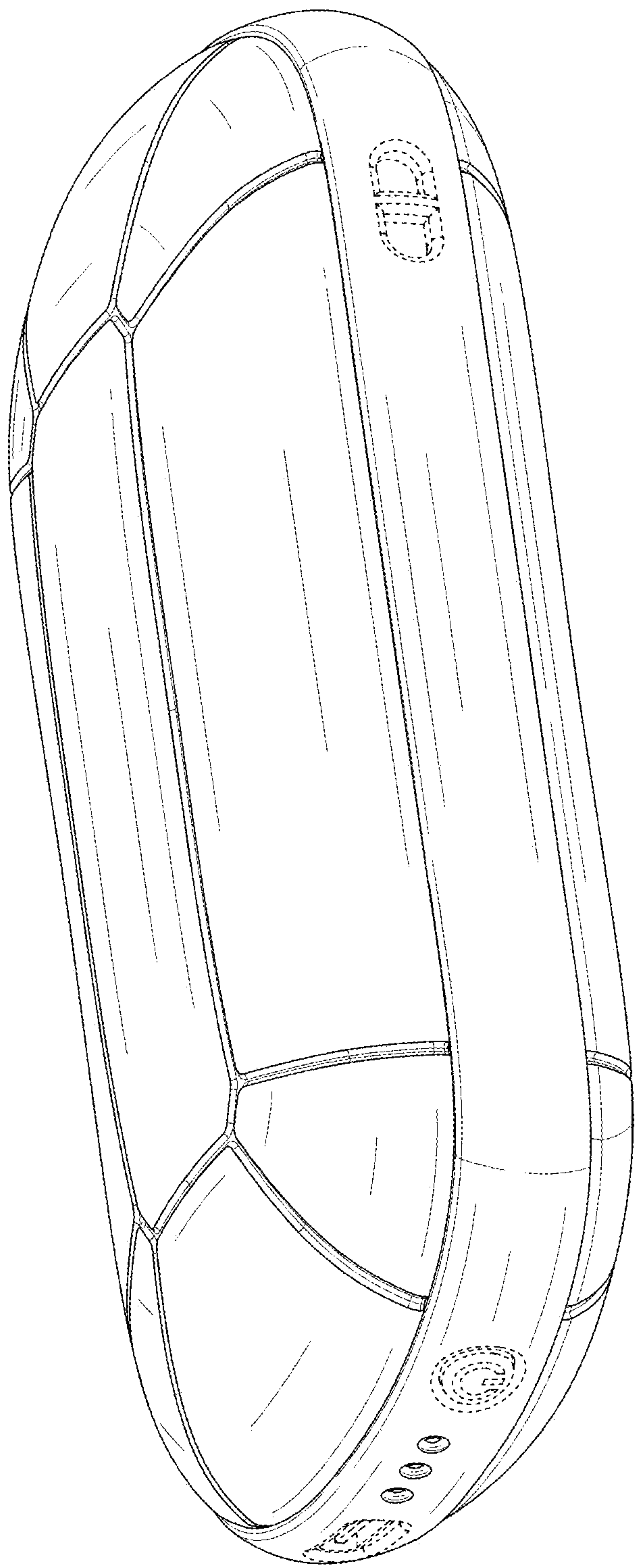


FIG. 1



FIG. 2

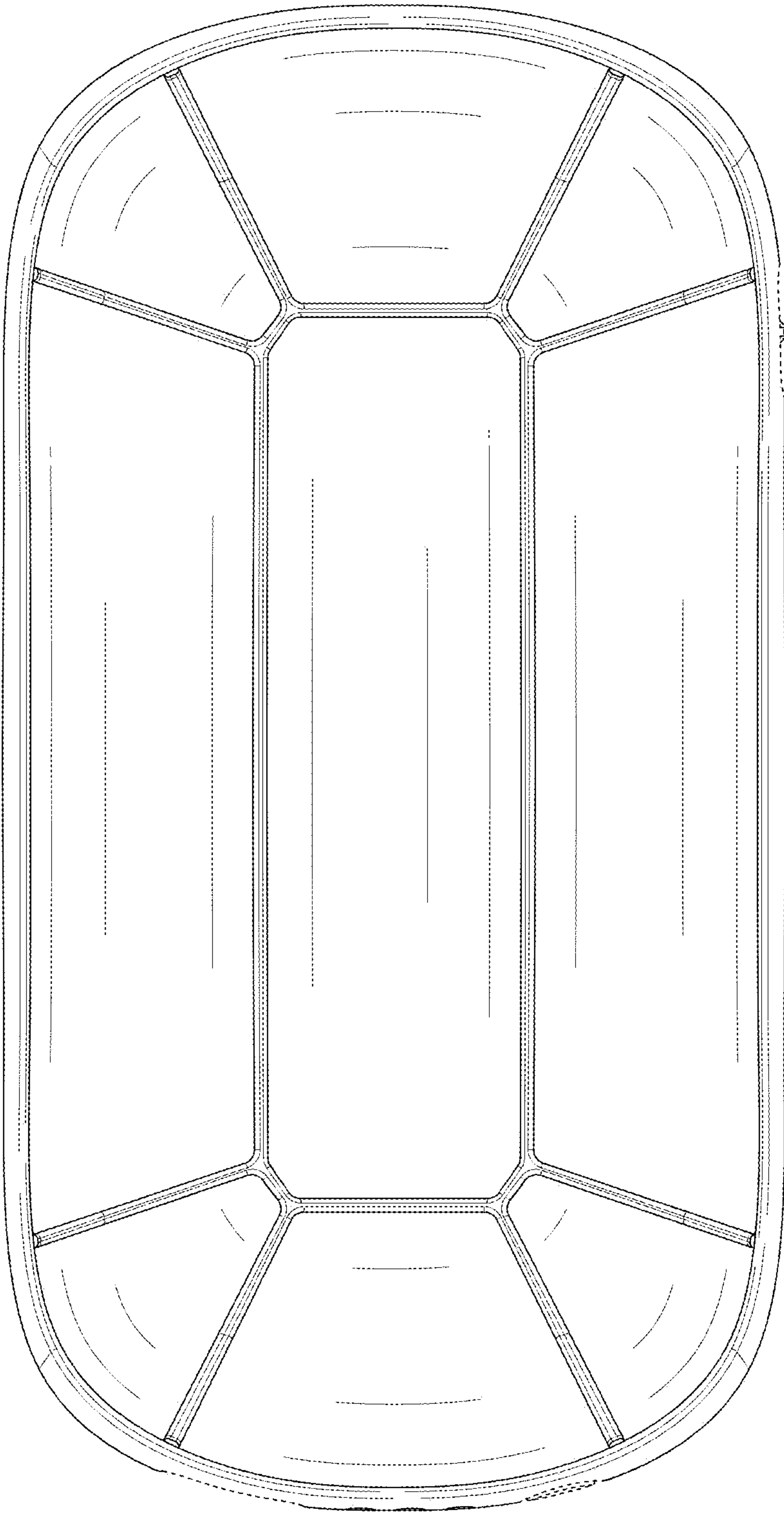


FIG. 3

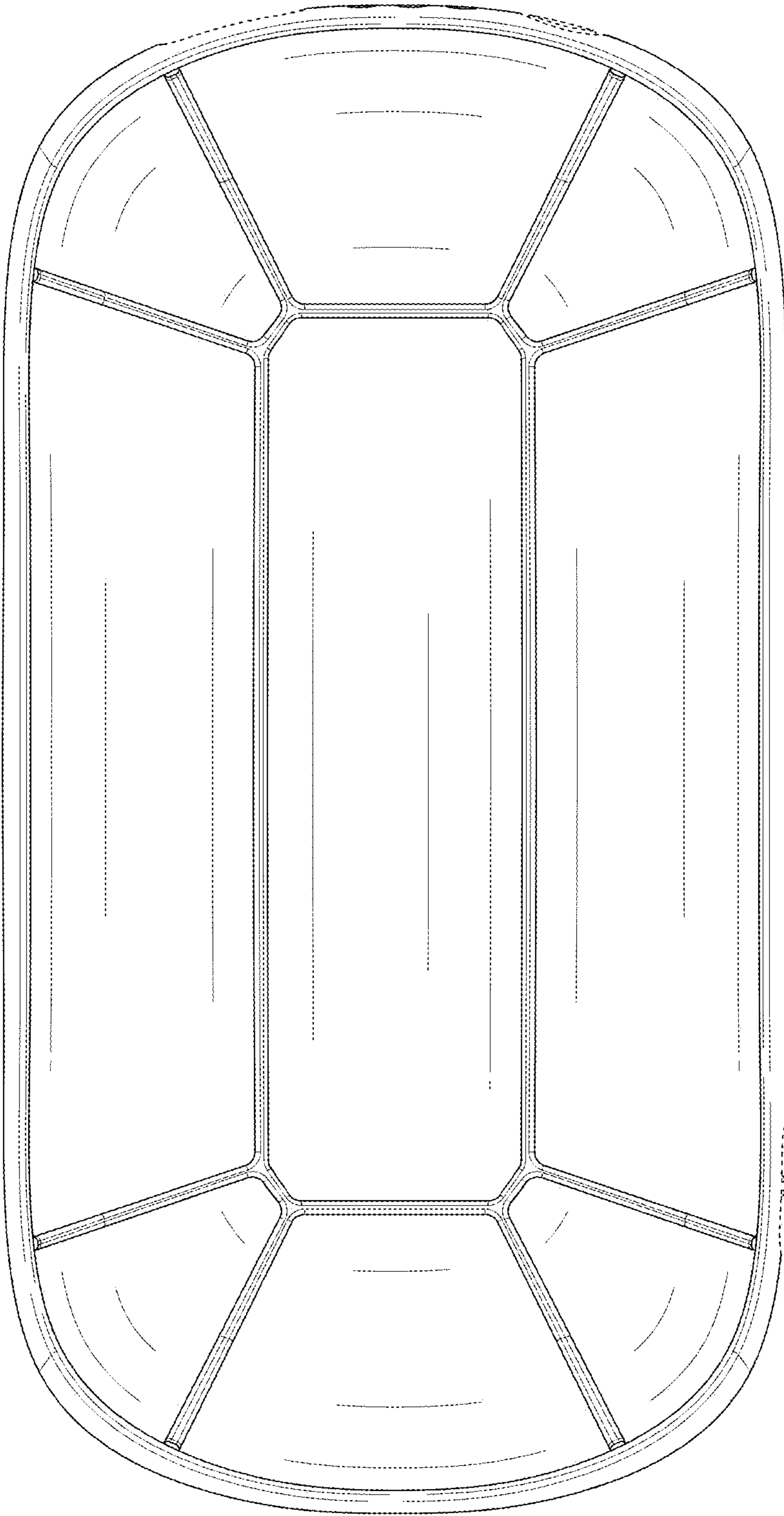


FIG. 4

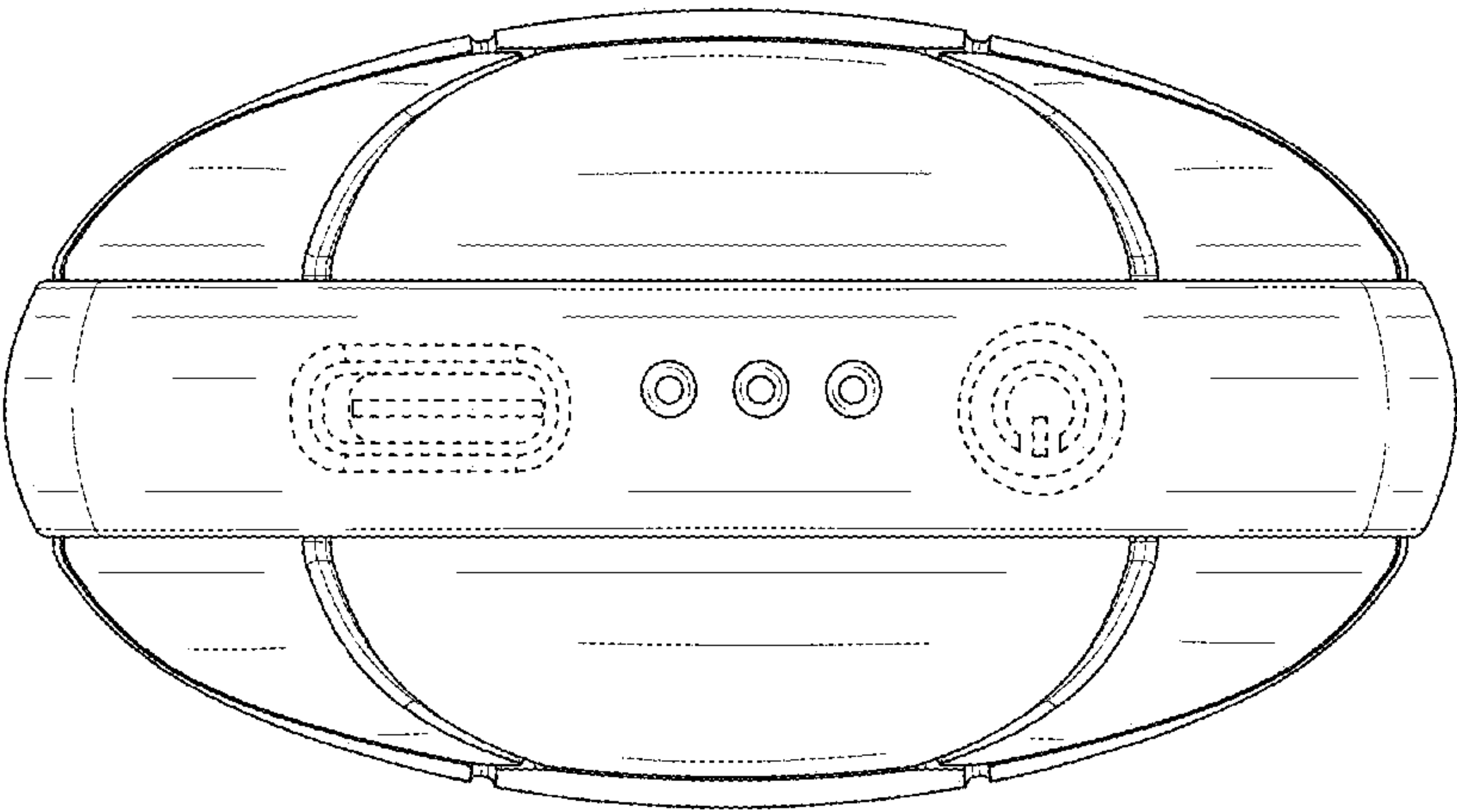


FIG. 5

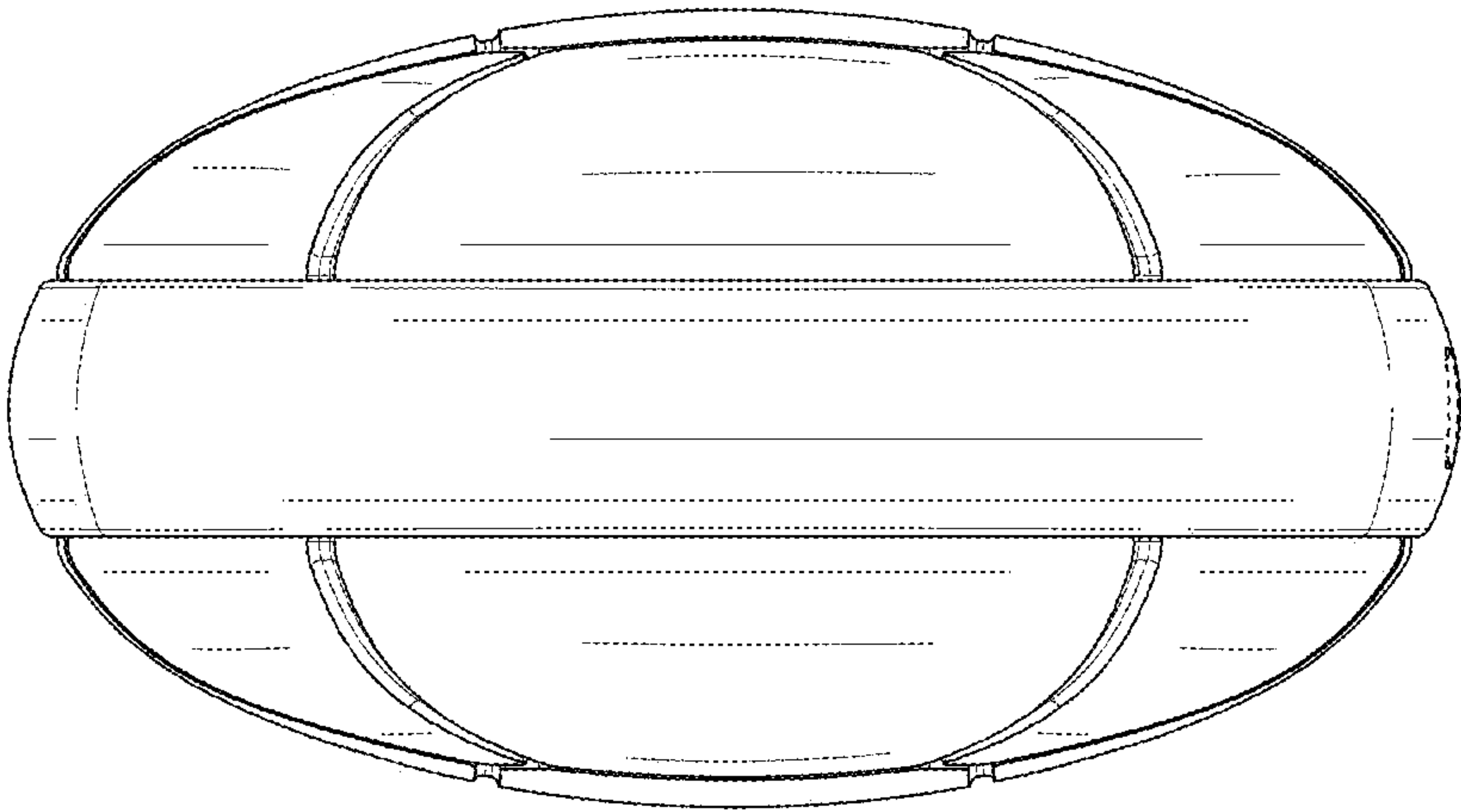


FIG. 6

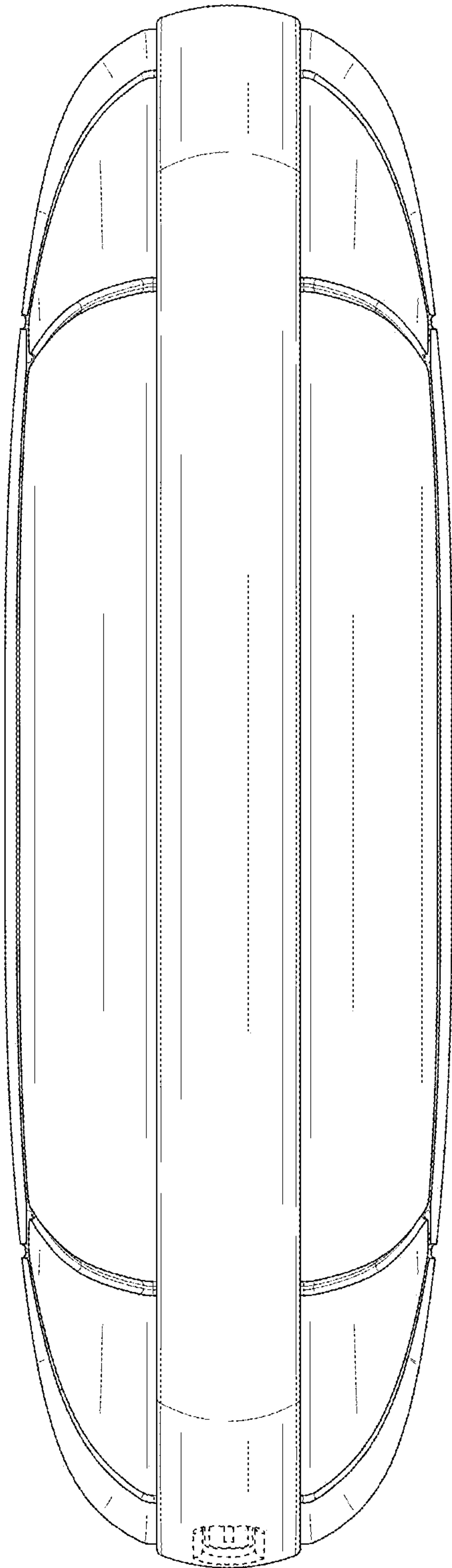


FIG. 7

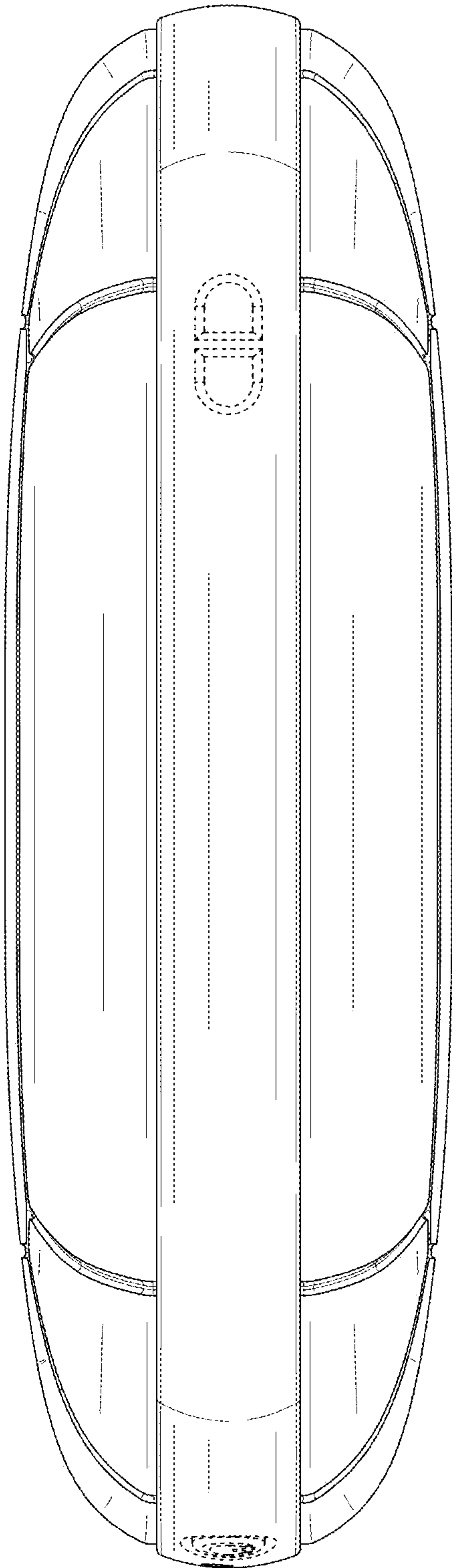


FIG. 8