



US00D929574S

(12) **United States Design Patent** (10) **Patent No.:** **US D929,574 S**
Zhou et al. (45) **Date of Patent:** **** Aug. 31, 2021**

(54) **ORAL IRRIGATOR**

(71) Applicant: **Colgate-Palmolive Company**, New York, NY (US)

(72) Inventors: **Jiang Zhou**, Yangzhou (CN); **Yanmei Ji**, Yangzhou (CN); **Fan Gang Xie**, Shanghai (CN); **Bo Zhang**, Yangzhou (CN)

(73) Assignee: **Colgate-Palmolive Company**, New York, NY (US)

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

(21) Appl. No.: **29/704,763**

(22) Filed: **Sep. 6, 2019**

(51) **LOC (13) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/111**

(58) **Field of Classification Search**
USPC D24/108, 111-115, 117, 152, 176
CPC A61C 17/20; A61C 17/00; A61C 17/005; A61C 17/02; A61C 17/0202; A61C 17/0205; A61C 17/0211; A61C 17/36; A61C 17/028; A61C 17/22; A61C 17/222; A61C 17/225; A61C 17/28
See application file for complete search history.

D822,196 S 7/2018 Kim
D825,741 S 8/2018 Massie et al.
10,130,452 B2 11/2018 Baragona et al.
D865,160 S * 10/2019 Yan D24/111
D865,944 S * 11/2019 Yan D24/111
D909,568 S * 2/2021 Xia D24/111
2018/0125221 A1 5/2018 Wronski et al.
2018/0221124 A1 8/2018 Carlyle et al.
2019/0105139 A1 4/2019 Zhou

FOREIGN PATENT DOCUMENTS

CH 145187-0001 * 3/2020
CH 145187-0002 * 3/2020
CH 145187-0003 * 3/2020
CN 103040532 B 12/2015
CN 204995600 U 1/2016
CN 205359673 U 7/2016
CN 104582632 B 10/2016
CN 108553191 A 9/2018
CN 109223220 A 1/2019

(Continued)

Primary Examiner — Lilyana Bekic

(57) **CLAIM**

The ornamental design for an oral irrigator, as shown and described.

DESCRIPTION

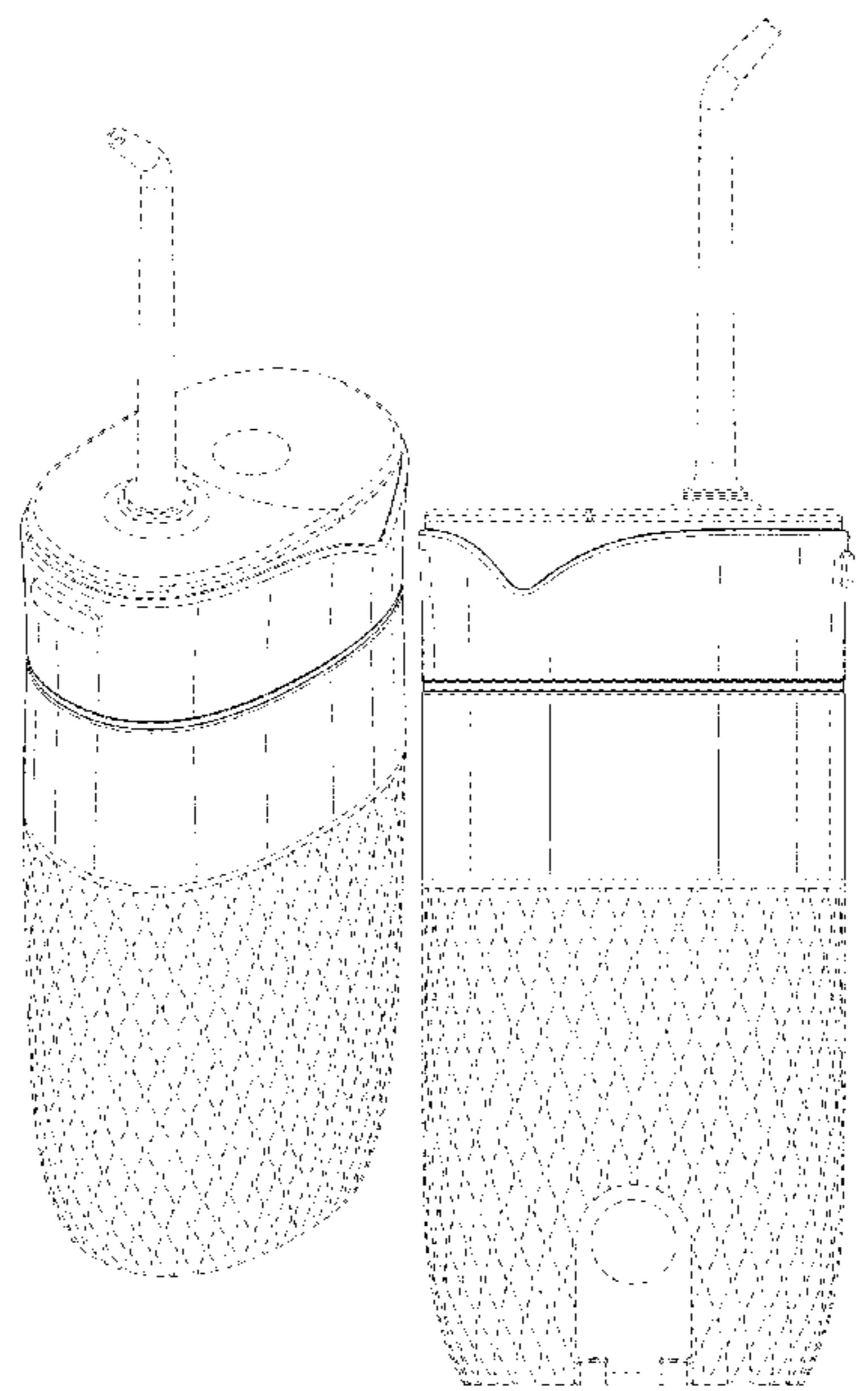
FIG. 1 is a front perspective view of an oral irrigator according to the new design;
FIG. 2 is a rear perspective view thereof;
FIG. 3 is a front view thereof;
FIG. 4 is a rear view thereof;
FIG. 5 is a right side view thereof;
FIG. 6 is a left side view thereof;
FIG. 7 is a top view thereof; and,
FIG. 8 is a bottom view thereof.
The broken lines in the drawings illustrate portions of the oral irrigator that form no part of the claimed design.

1 Claim, 7 Drawing Sheets

(56) **References Cited**

U.S. PATENT DOCUMENTS

D322,314 S * 12/1991 Ohbayashi D24/113
D373,631 S * 9/1996 Maeda D24/111
D413,975 S * 9/1999 Maeda D24/111
D548,334 S 8/2007 Izumi
D625,406 S 10/2010 Seki et al.
8,753,117 B2 6/2014 Edwards et al.
9,642,677 B2 5/2017 Luetngen et al.
D812,219 S * 3/2018 Wang D24/111



(56)

References Cited

FOREIGN PATENT DOCUMENTS

CN	305067887 S	3/2019
CN	208942449 U	6/2019
CN	305313625 *	8/2019
CN	305692455 *	4/2020
CN	305795989 *	5/2020
CN	305845555 *	6/2020
CN	305924052 *	7/2020
CN	305991803 *	8/2020
EM	006575791-0001 *	6/2019
EM	007506506-0001 *	1/2020
EM	007506506-0002 *	1/2020
EM	007506506-0003 *	1/2020
JP	D1576135	5/2017
KR	3005795870000	11/2010
KR	3010072790000	5/2019
TW	585737	4/2004
WO	WO 2018065747 A1	4/2018

* cited by examiner

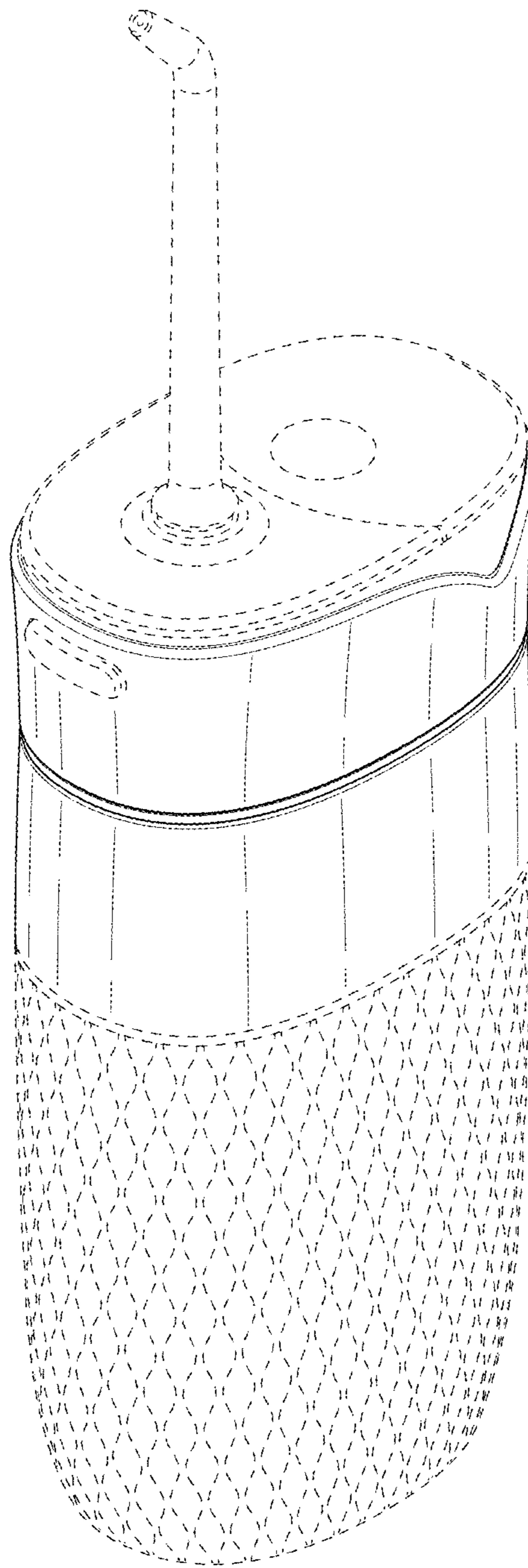


FIG. 1

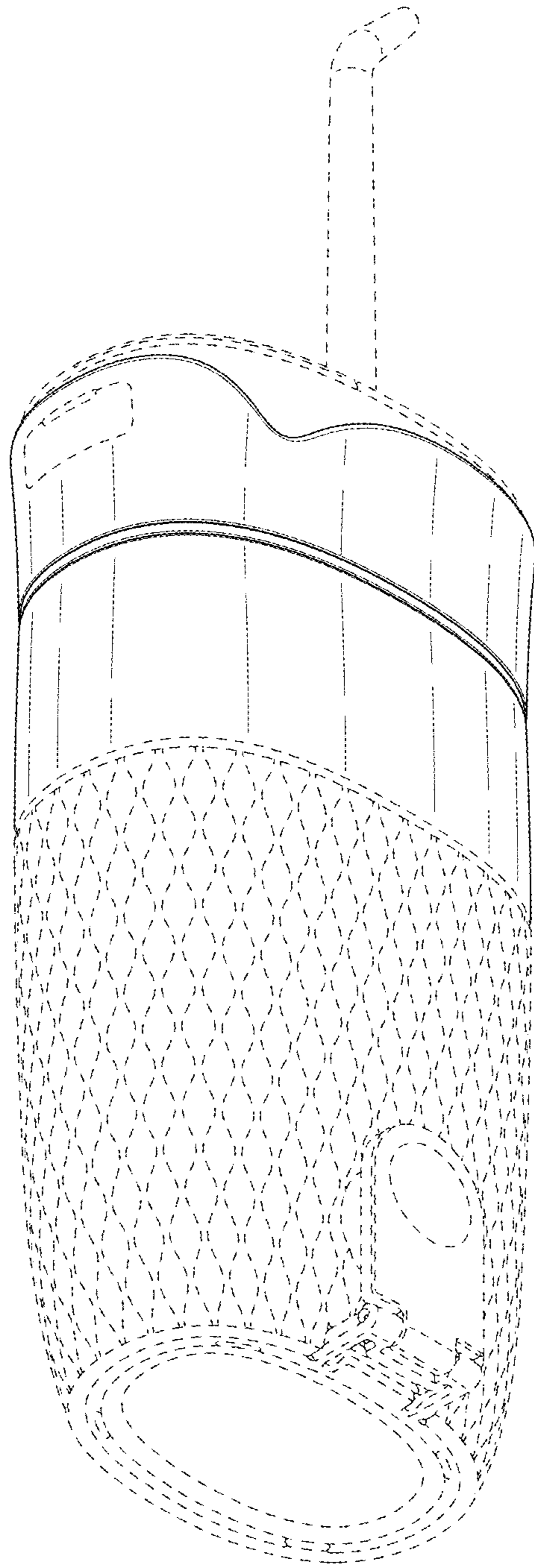


FIG. 2

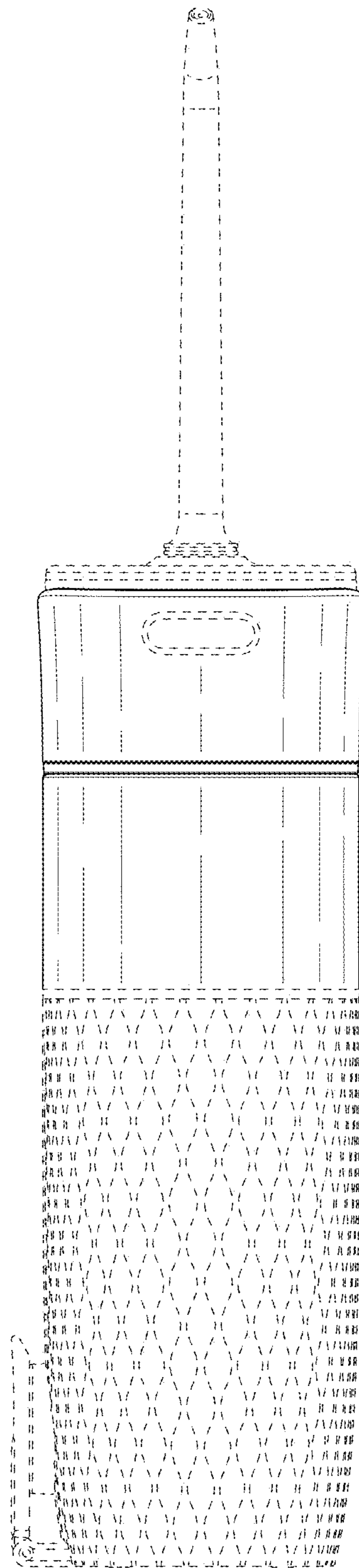


FIG. 3

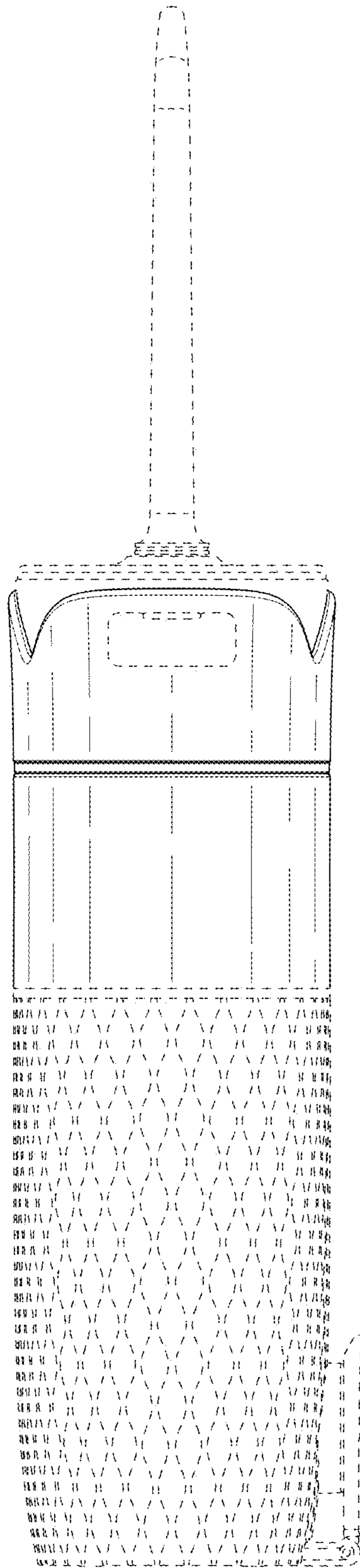


FIG. 4

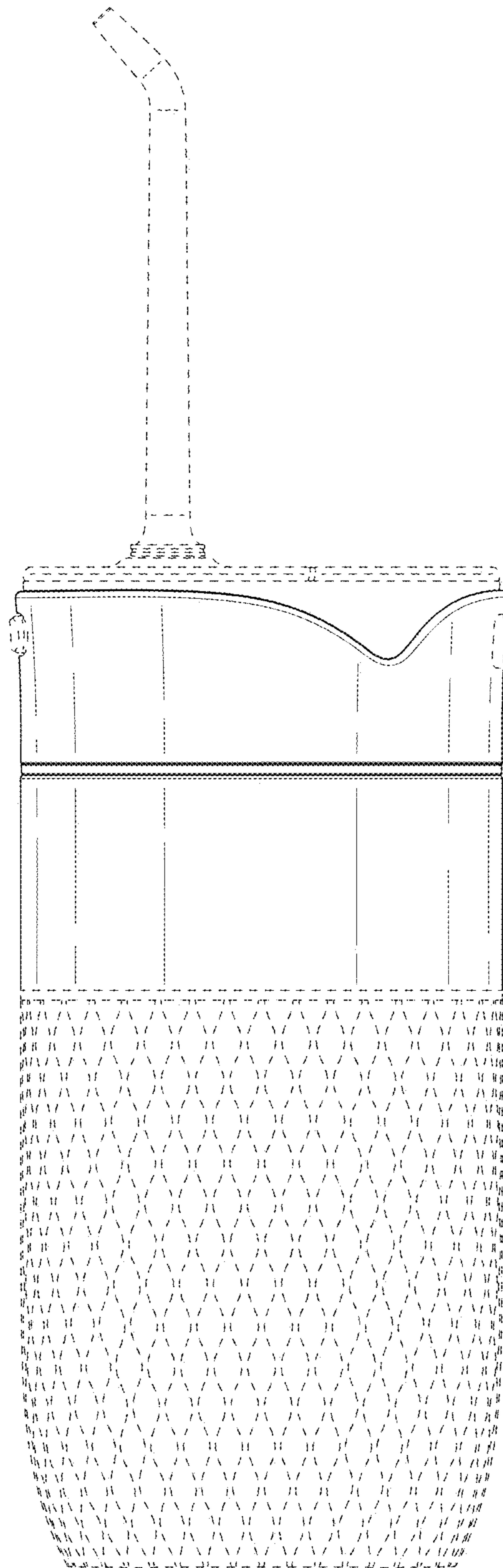


FIG. 5

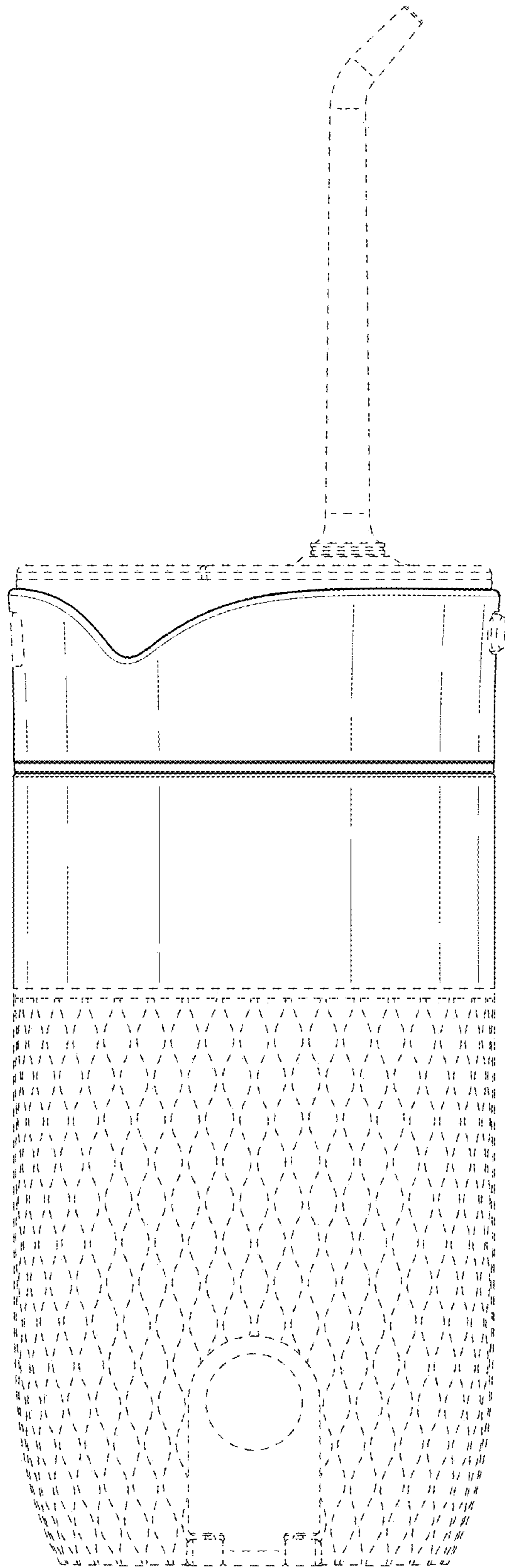


FIG. 6

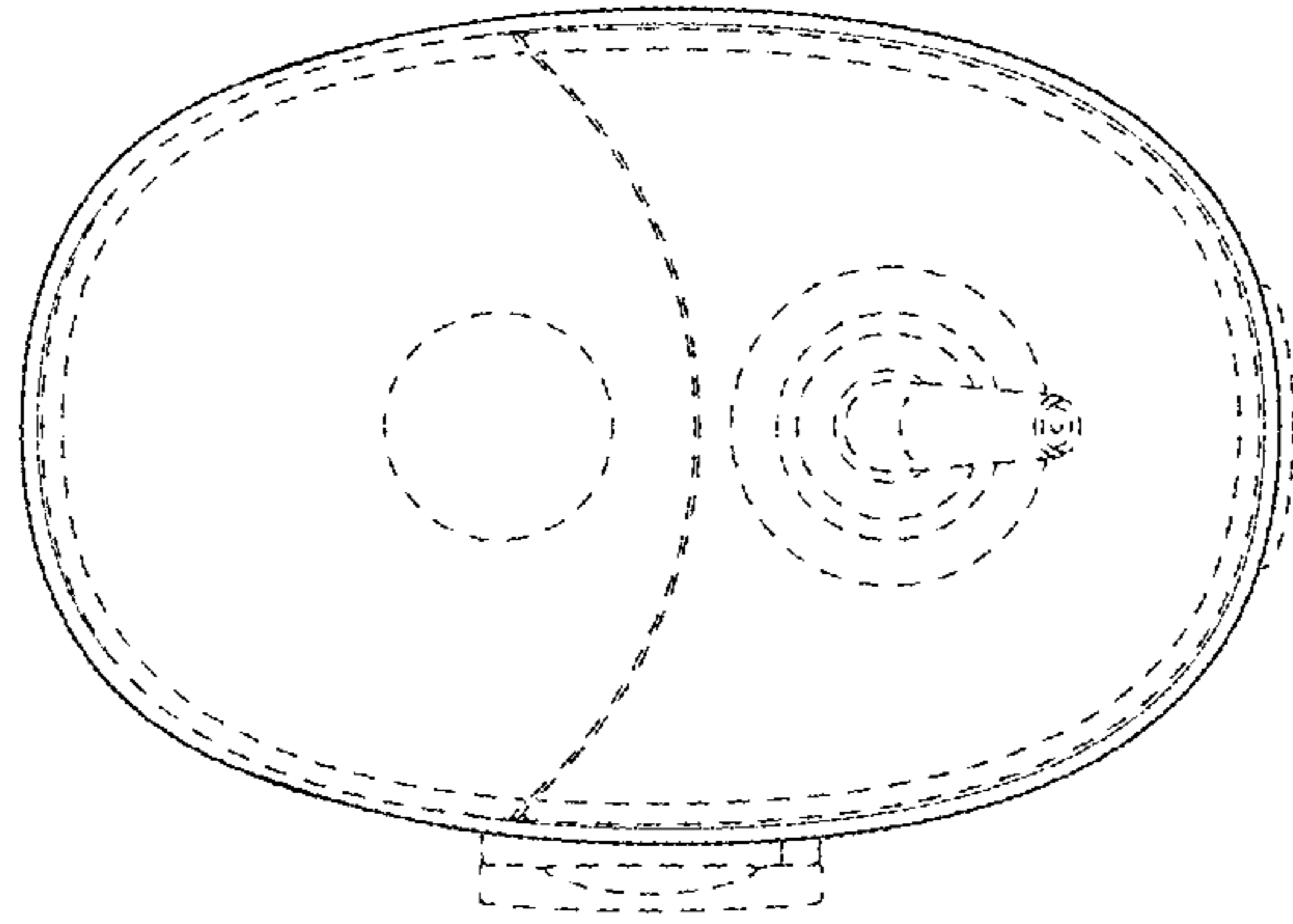


FIG. 7

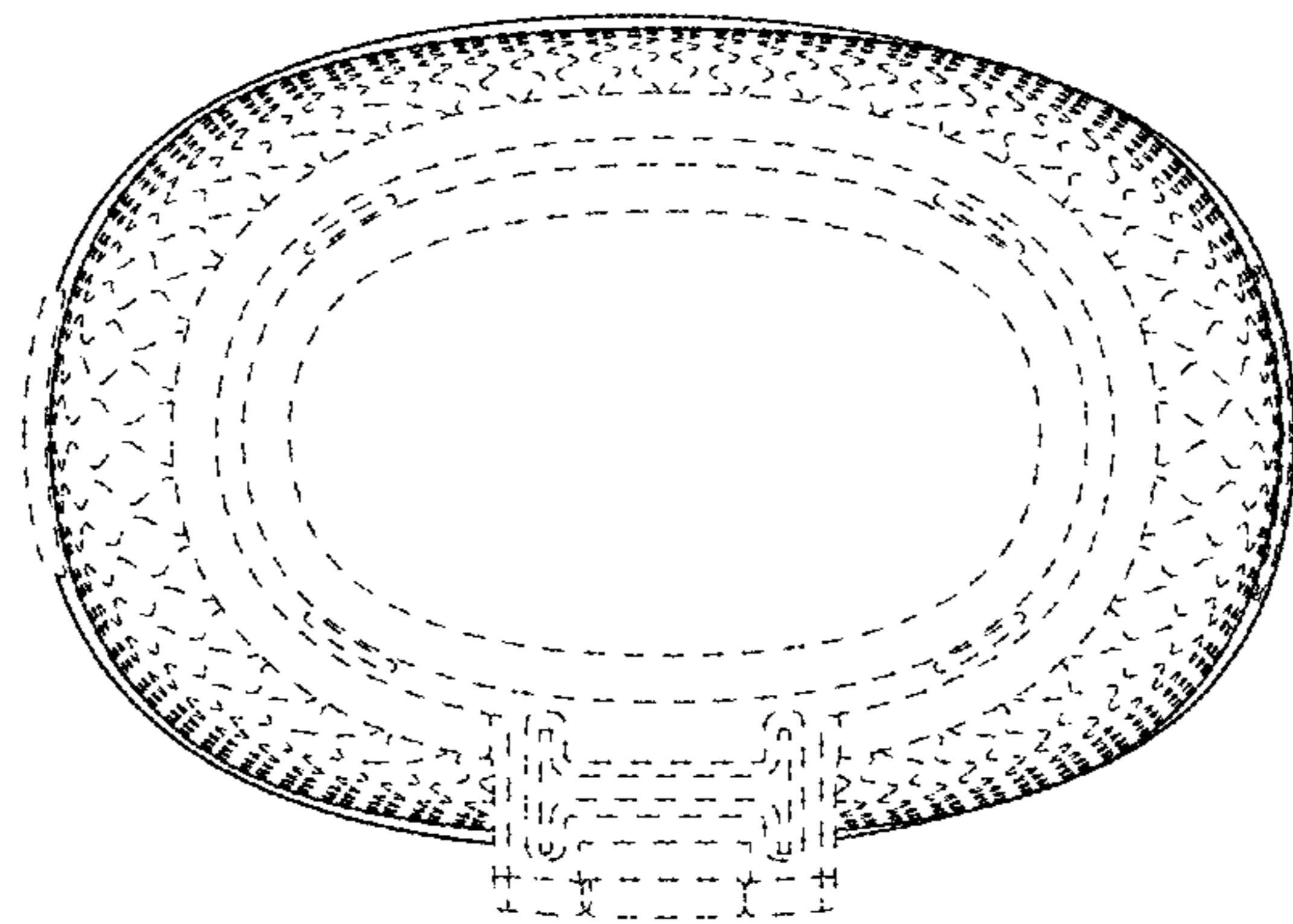


FIG. 8