



US00D909583S

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

(10) **Patent No.:** **US D909,583 S**
(45) **Date of Patent:** **** Feb. 2, 2021**

(54) **BREATHING MONITORING DEVICE**

(71) Applicant: **Samsung Electronics Co., Ltd.**,
Suwon-si (KR)
(72) Inventors: **Namhun Kim**, Gumi-si (KR); **Inpyo Lee**,
Bucheon-si (KR); **Changho Song**, Seongnam-si (KR); **Kisang Yoon**,
Seoul (KR); **Jinwuk Lee**, Hwaseong-si (KR)
(73) Assignee: **Samsung Electronics Co., Ltd.**,
Suwon-si (KR)
(**) Term: **15 Years**

(21) Appl. No.: **29/677,730**

(22) Filed: **Jan. 23, 2019**

(30) **Foreign Application Priority Data**

Jul. 27, 2018 (KR) 30-2018-0034991

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

(52) **U.S. Cl.**
USPC **D24/164**

(58) **Field of Classification Search**
USPC D24/164, 185, 107, 110; D10/81
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,945,918 A * 8/1990 Abernathy G01N 33/497
600/532
D629,506 S 12/2010 Adamo et al.
(Continued)

FOREIGN PATENT DOCUMENTS

EM 001878828-0003 8/2011
EM 001294235-0001 11/2011

OTHER PUBLICATIONS

Acapella. "Acapella Choice Vibratory PEP Device with Video Request Card" [2012] www.amazon.com Oct. 29, 2012 <https://www.amazon.co.uk/Acapella-Choice-Vibratory-Device-Request/dp/B001V79NPO>.

(Continued)

Primary Examiner — Rhea Shields
(74) *Attorney, Agent, or Firm* — NSIP Law

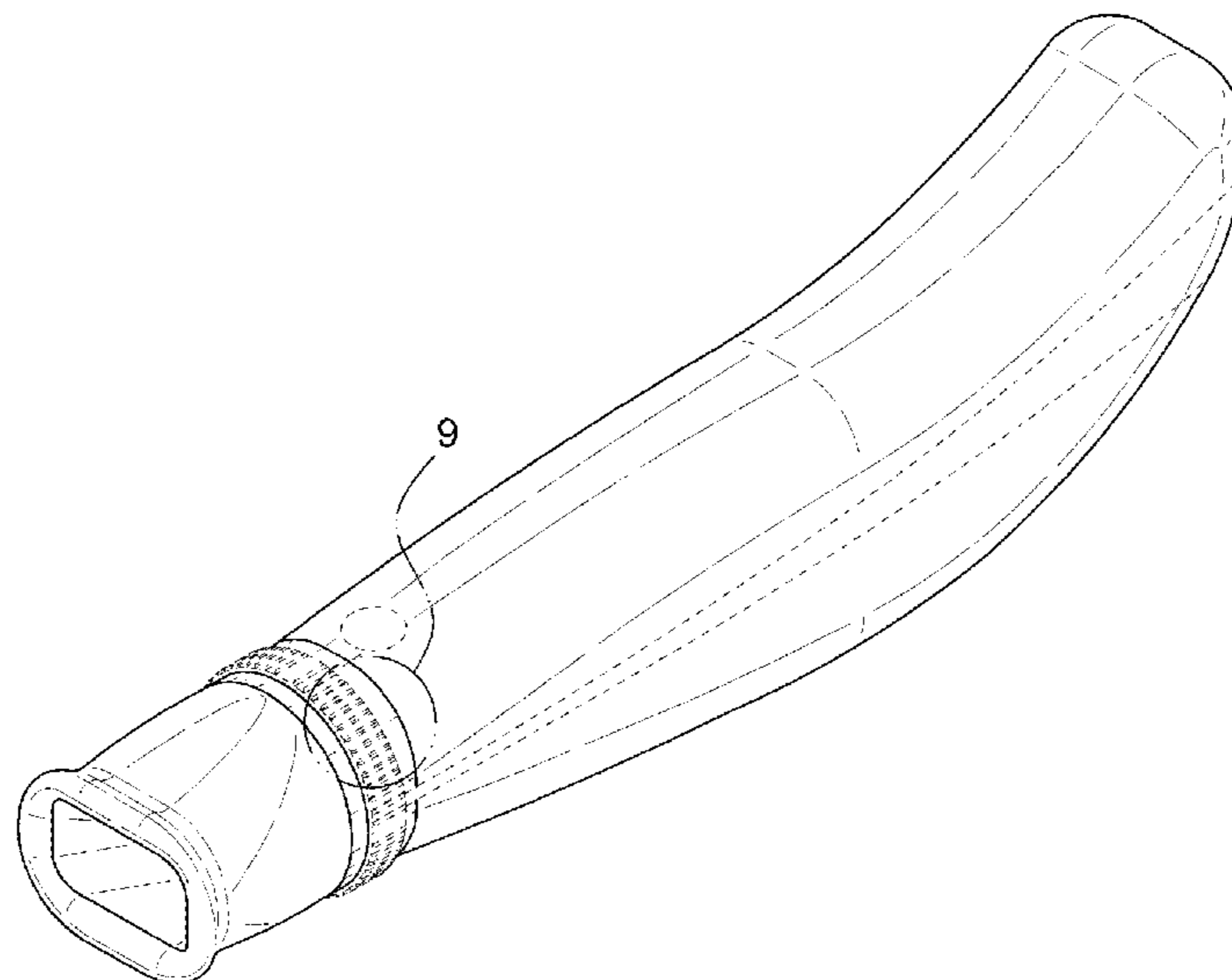
(57) **CLAIM**

We claim the ornamental design for a breathing monitoring device, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a breathing monitoring device showing our new design;
FIG. 2 is a front view thereof;
FIG. 3 is a rear view thereof;
FIG. 4 is a left-side view thereof;
FIG. 5 is a right-side view thereof;
FIG. 6 is a top view thereof;
FIG. 7 is a bottom view thereof;
FIG. 8 is a bottom perspective view thereof;
FIG. 9 is an enlarged view of the encircled portion in FIG. 1;
FIG. 10 is an enlarged view of the encircled portion in FIG. 4;
FIG. 11 is an enlarged view of the encircled portion in FIG. 5; and,
FIG. 12 is another bottom perspective view showing an example state of use of the breathing monitoring device shown in FIG. 8 from which a saw-tooth shaped controller is detached.
The broken lines in the figures depict portions of the breathing monitoring device which form no part of the claimed design. The dot-dot-dash broken lines encircling enlarged portions of the claimed design form no part thereof.

1 Claim, 7 Drawing Sheets



(58) **Field of Classification Search**

CPC A61B 5/082; A61B 18/203; G01N 33/497
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D812,736 S * 3/2018 Parker D24/110
D826,751 S * 8/2018 Fornoff D10/81
D828,192 S * 9/2018 Fornoff D10/81
D828,194 S * 9/2018 Fornoff D10/81
D834,701 S * 11/2018 Inoue D24/107
D840,529 S * 2/2019 Steinberg D24/110
D852,959 S * 7/2019 Kim D24/164
D857,880 S * 8/2019 Lau D24/110
D875,237 S * 2/2020 Ghazzawi D24/110
D884,150 S * 5/2020 Thomas D24/110
D887,544 S * 6/2020 Inoue D24/107
2007/0038206 A1 * 2/2007 Altshuler A61B 18/203
606/20
2016/0338620 A1 * 11/2016 Masavage A61B 5/082

OTHER PUBLICATIONS

Symbient Product Development. "Dry Powder Inhaler Drug Delivery Device" [2019] www.symbientpd.com Apr. 17, 2019 <<http://www.symbientpd.com/portfolio-item/dry-powder-inhaler-drug-delivery-device/>>.

Rossmax. "Peak Flow Meter with Color-coded indicators." [2019] [www.rossmax.com](https://www.rossmax.com/en/products/therapy/peak-flow-meters-aero-spacers/pf120a-peak-flow-meter-with-color-coded-indicators.html) Apr. 17, 2019 <<https://www.rossmax.com/en/products/therapy/peak-flow-meters-aero-spacers/pf120a-peak-flow-meter-with-color-coded-indicators.html>>.

* cited by examiner

FIG. 1

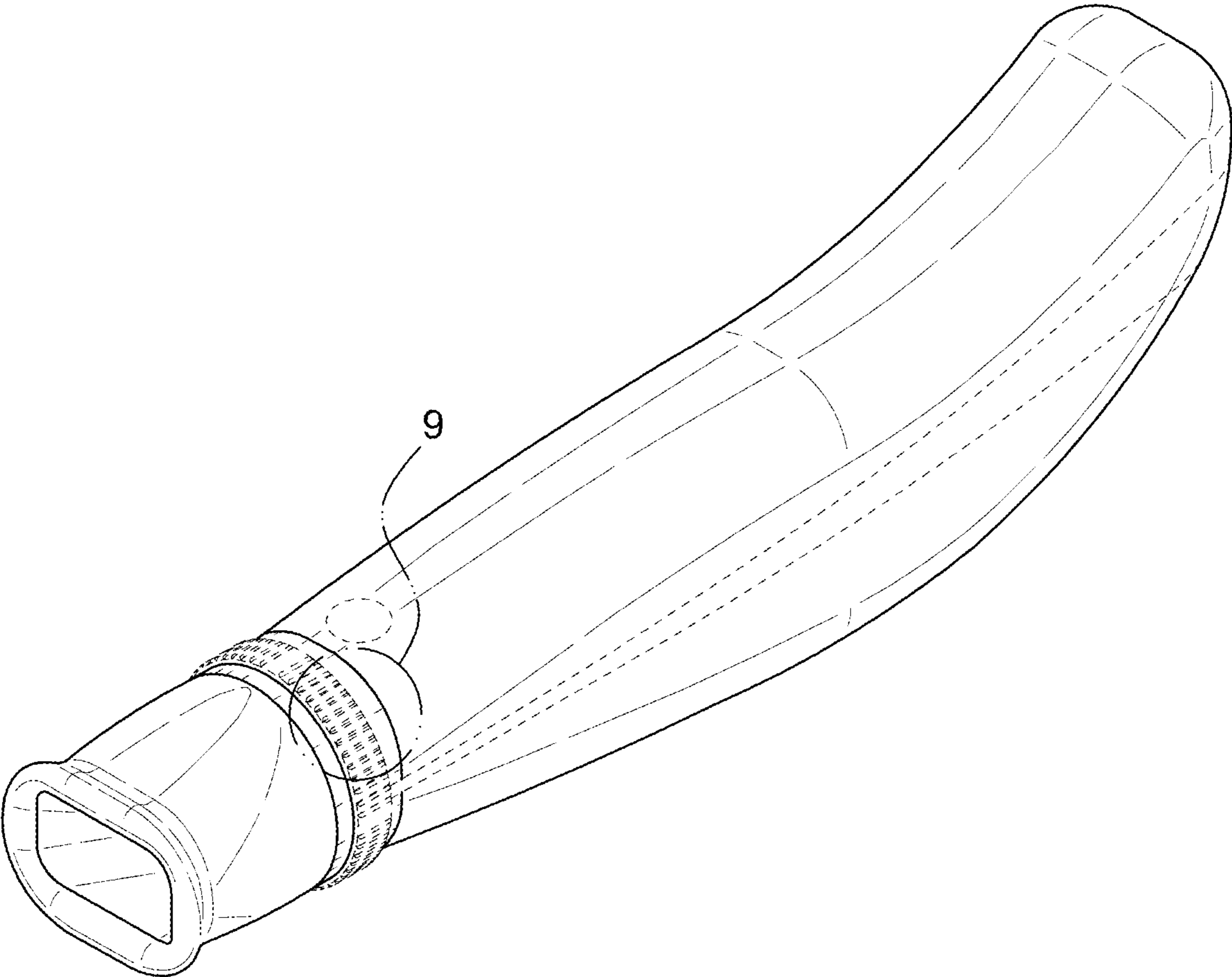


FIG.2

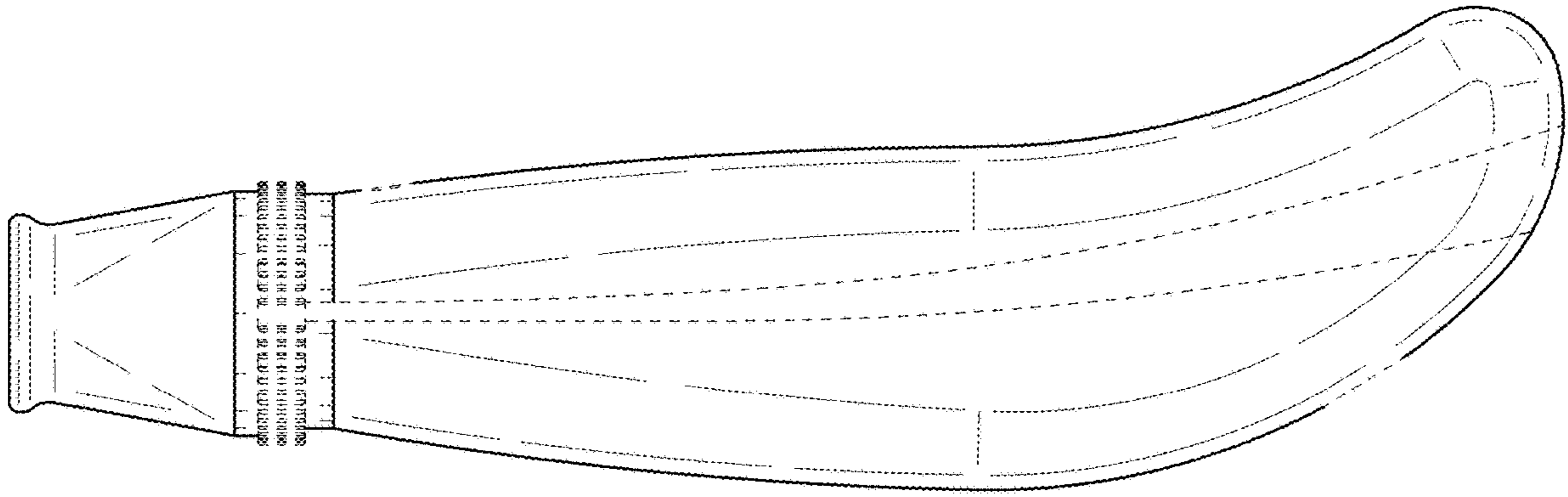


FIG.3

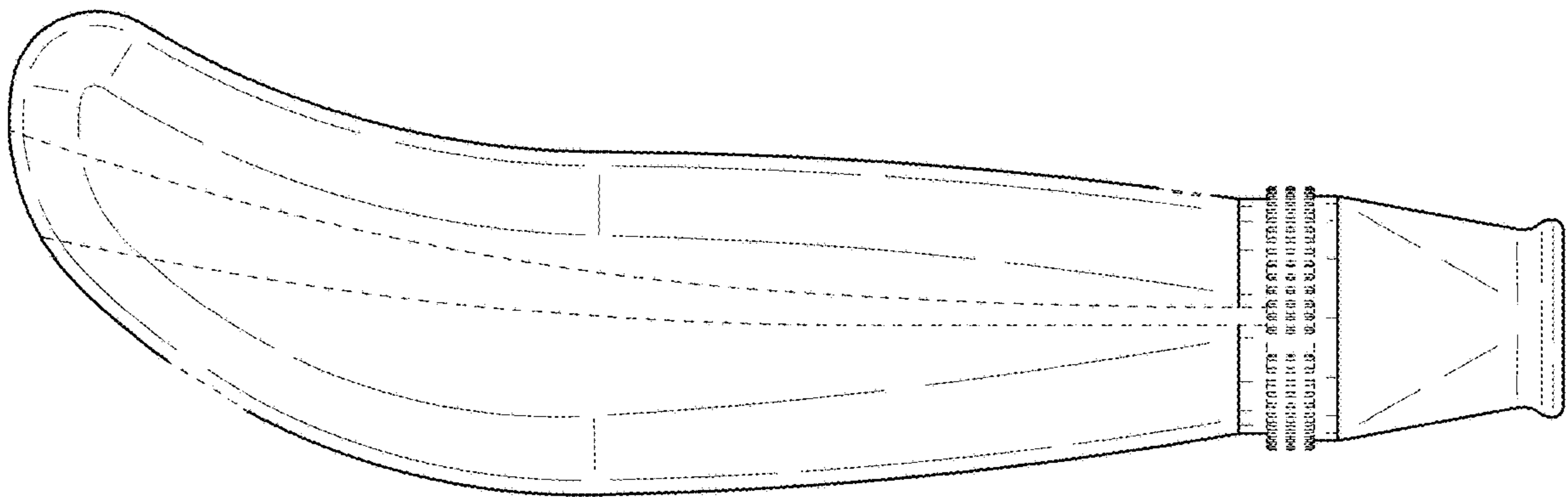


FIG.4

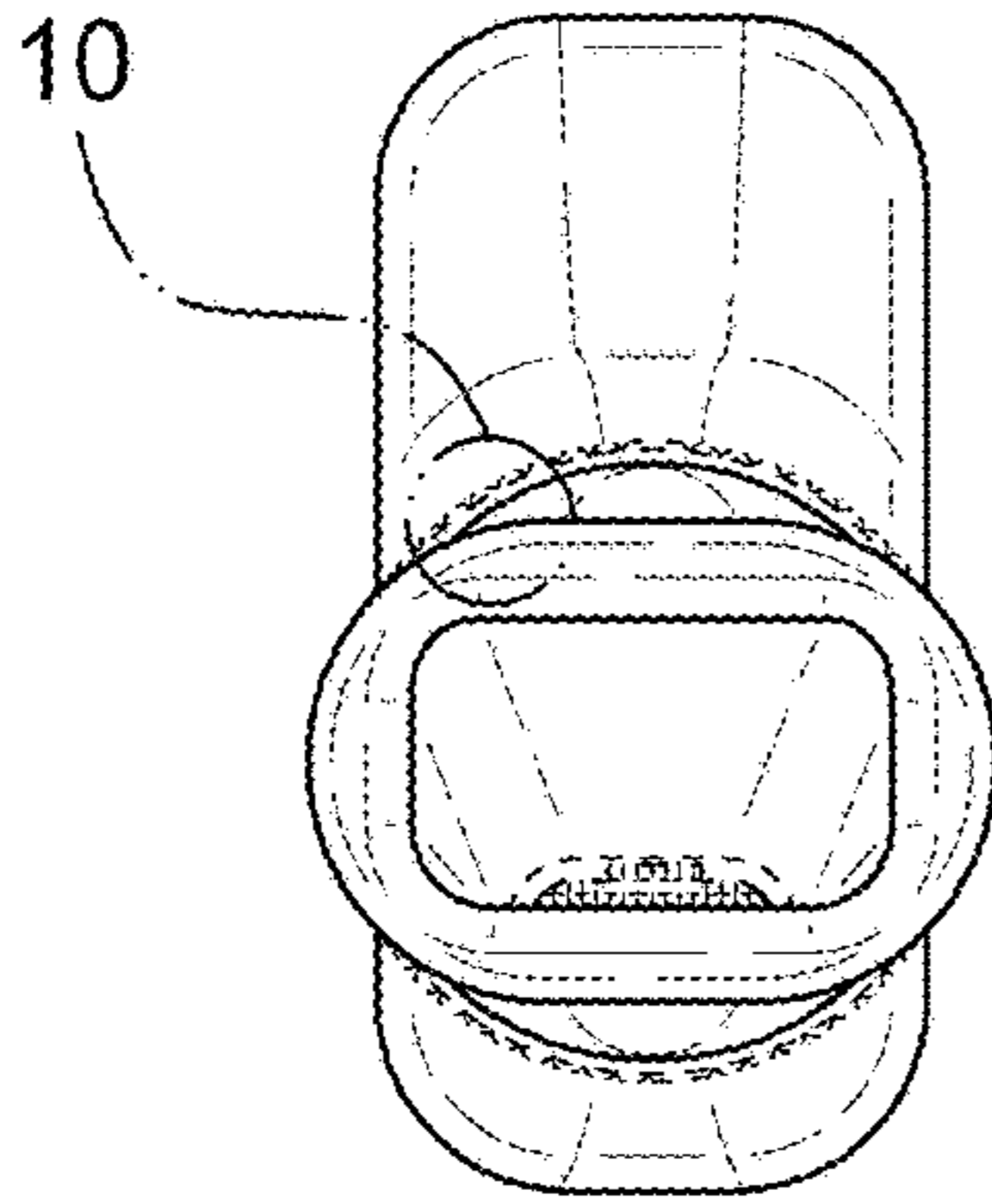


FIG.5

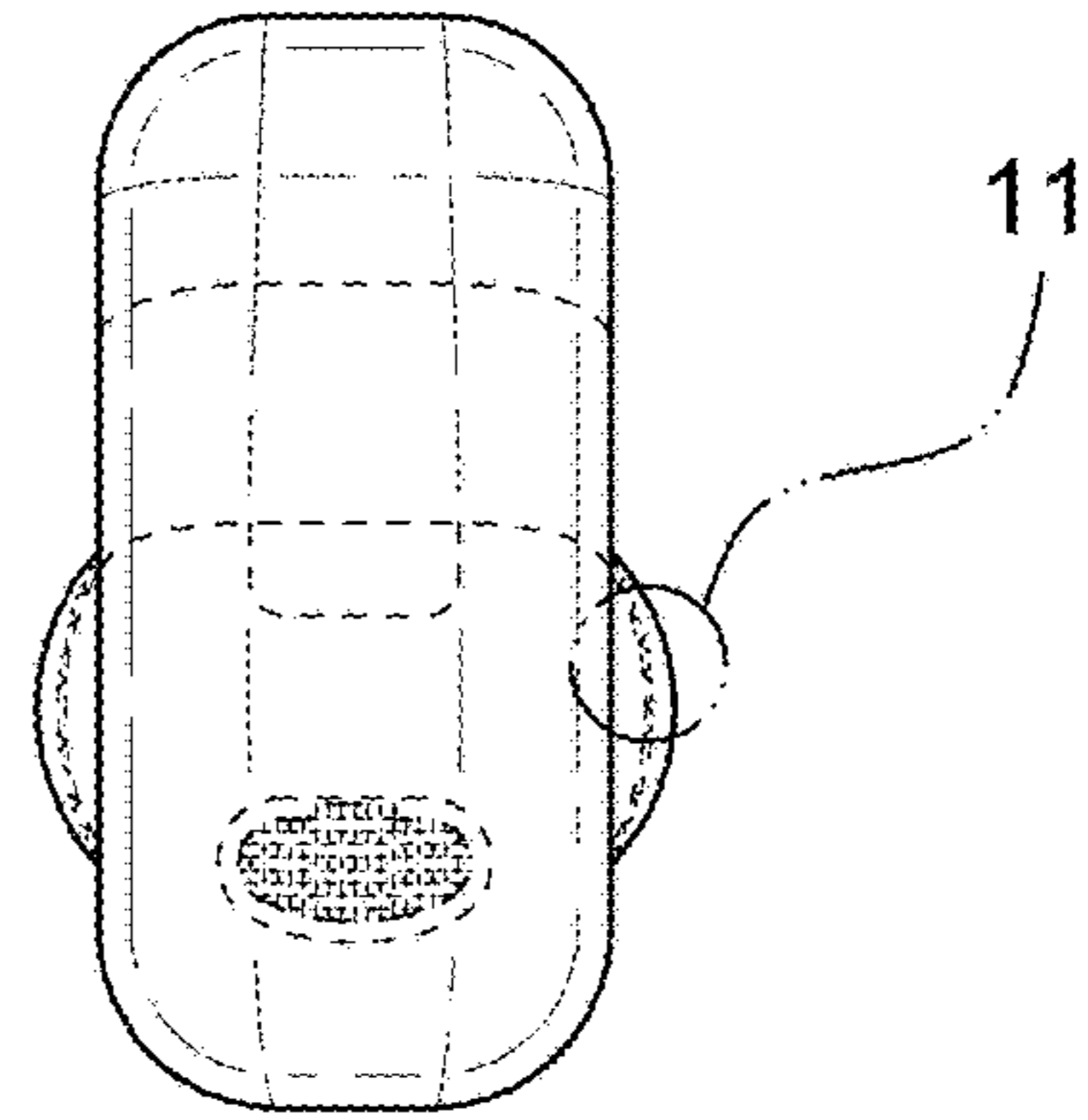


FIG.6

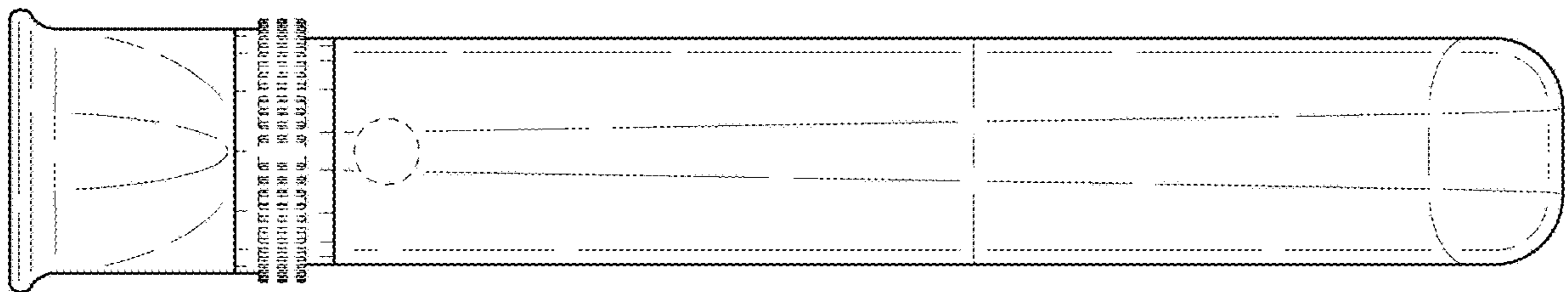


FIG.7

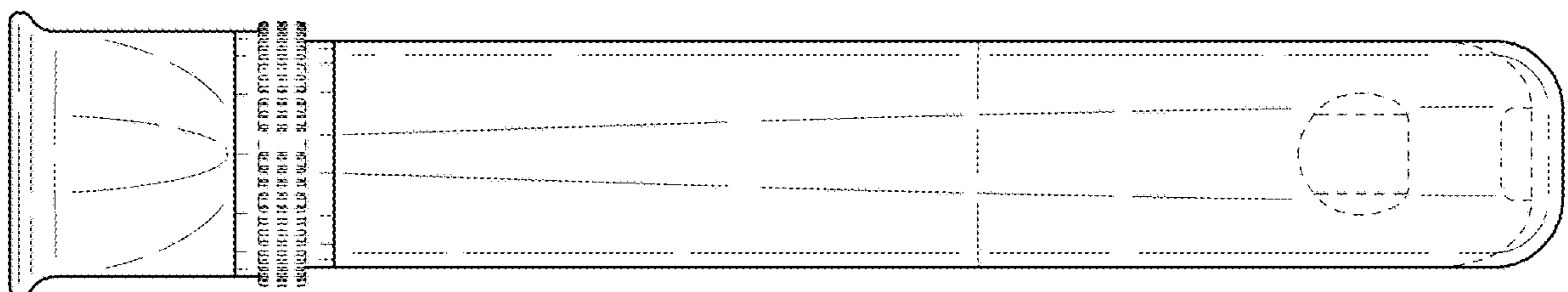


FIG.8

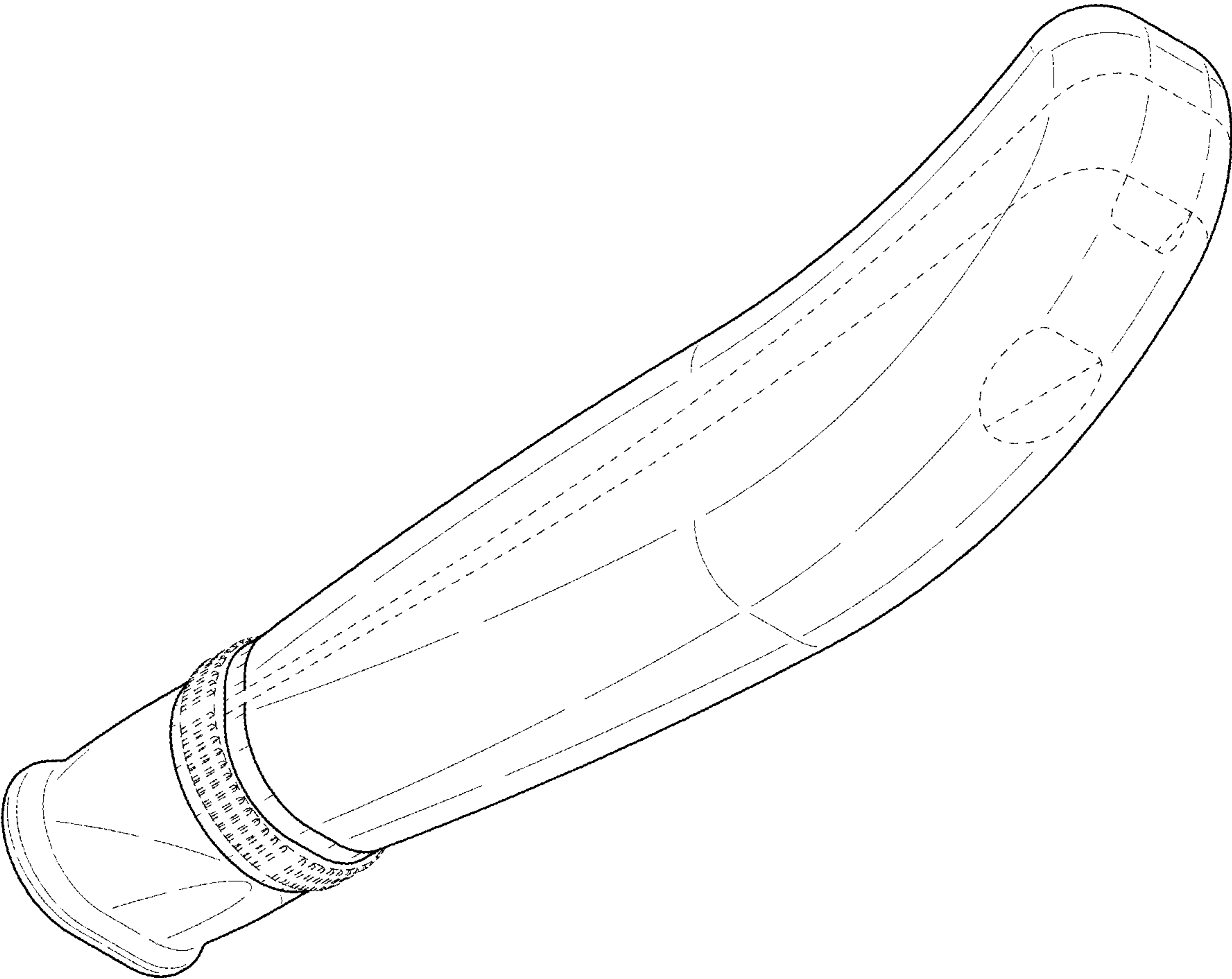


FIG.9

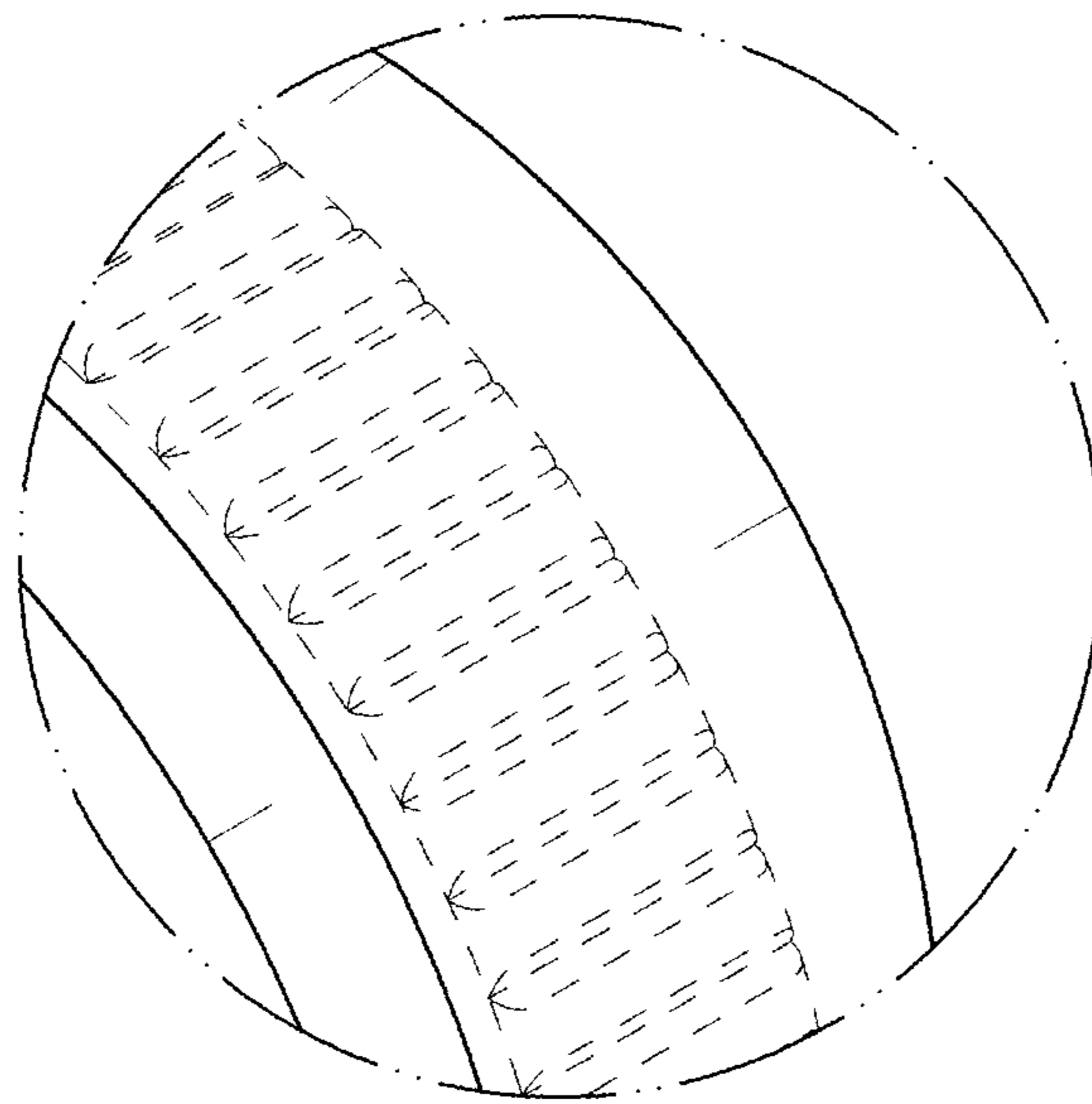


FIG.10

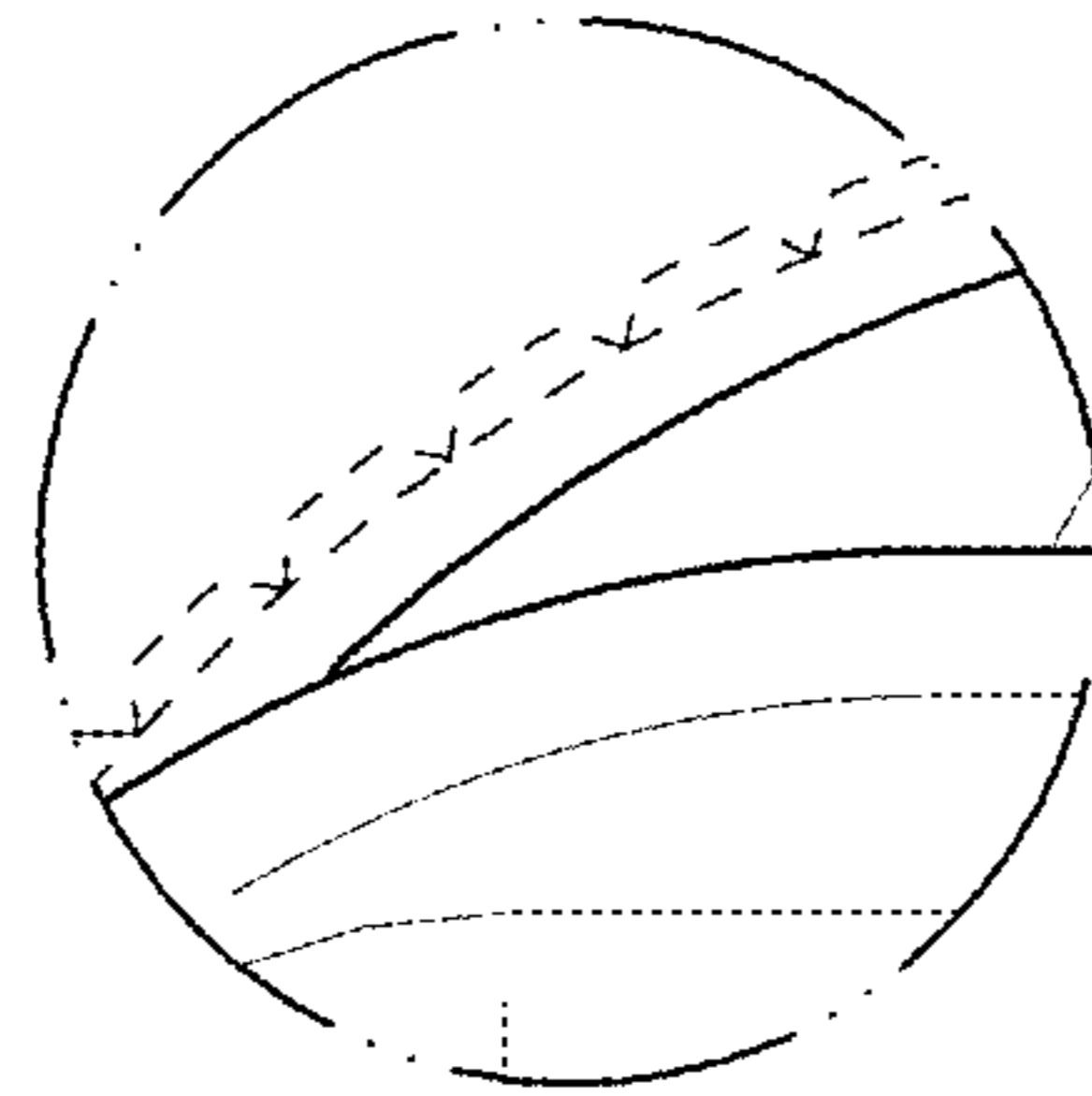


FIG.11

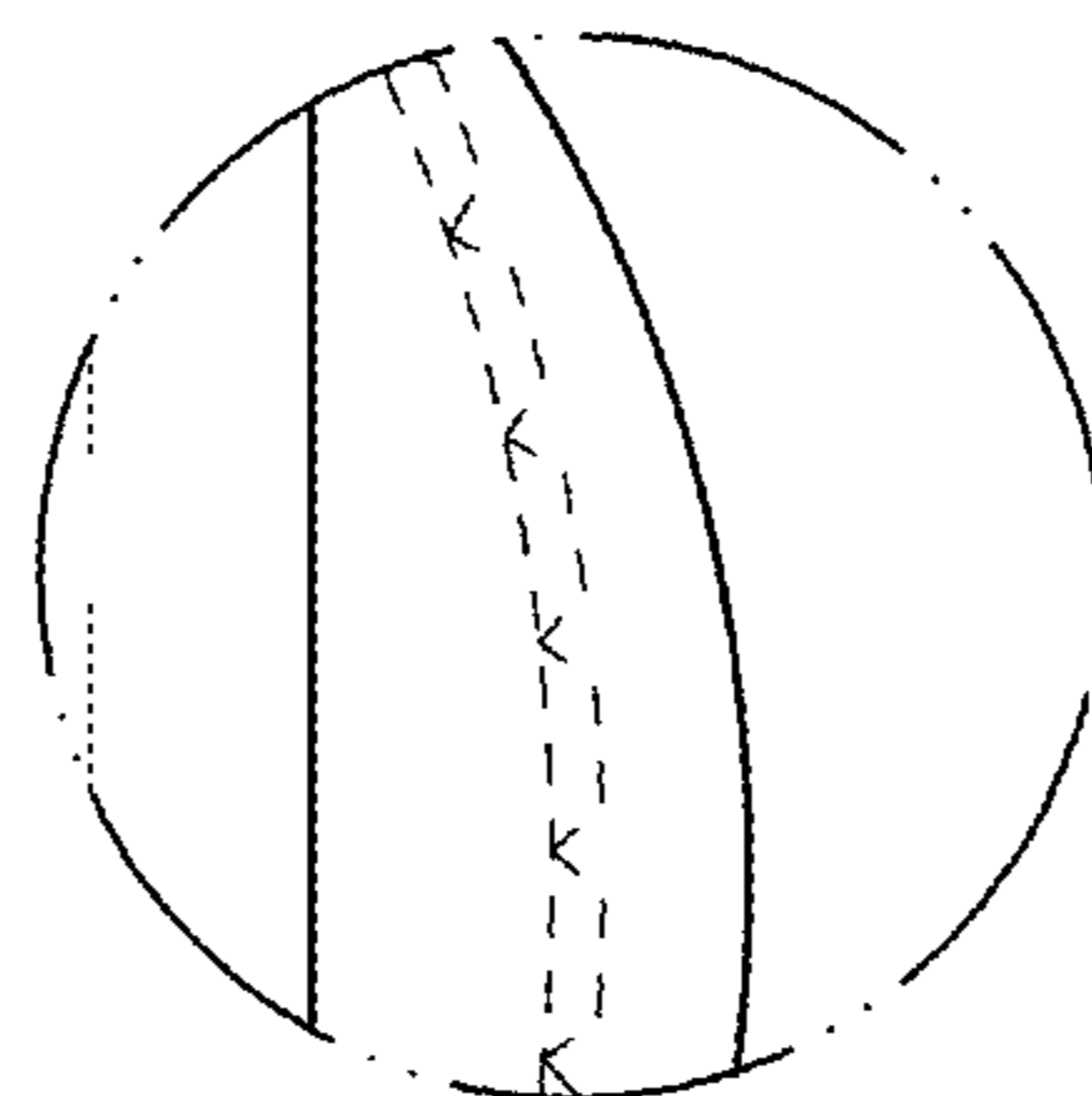


FIG.12

