



US0D1078948S

(12) **United States Design Patent** (10) **Patent No.: US D1,078,948 S**
Parker et al. (45) **Date of Patent: ** *Jun. 10, 2025**

(54) **INDIRECT HEAT EXCHANGER TUBE
CONTROLLED WRINKLE BEND**

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Design U.S. Appl. No. 29/812,659, filed Oct. 22, 2021 entitled
Indirect Heat Exchanger Tube Controlled Wrinkled Bend; 22 pages.
(Continued)

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(*) Notice: This patent is subject to a terminal dis-
claimer.

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

(57) **CLAIM**

The ornamental design for an indirect heat exchanger tube
controlled wrinkle bend, as shown and described.

(21) Appl. No.: **29/766,720**

(22) Filed: **Jan. 18, 2021**

(51) **LOC (15) Cl.** **23-01**

(52) **U.S. Cl.**
USPC **D23/266**

(58) **Field of Classification Search**

USPC D8/29, 256, 382, 394; D23/209–210,
D23/248, 259–263, 265–266, 322–323;
D24/112, 128; D32/35
CPC . F16L 55/07; F16L 39/00; F16L 3/003; F16L
11/085; F16L 3/00; F16L 3/1211; F28F
1/06; F28F 2001/027; F28F 9/24; F28F
1/006; F28F 2225/04; F28D 1/0477;
B60S 5/04; F16B 38/20; F16B 3/04;
F16B

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DESCRIPTION

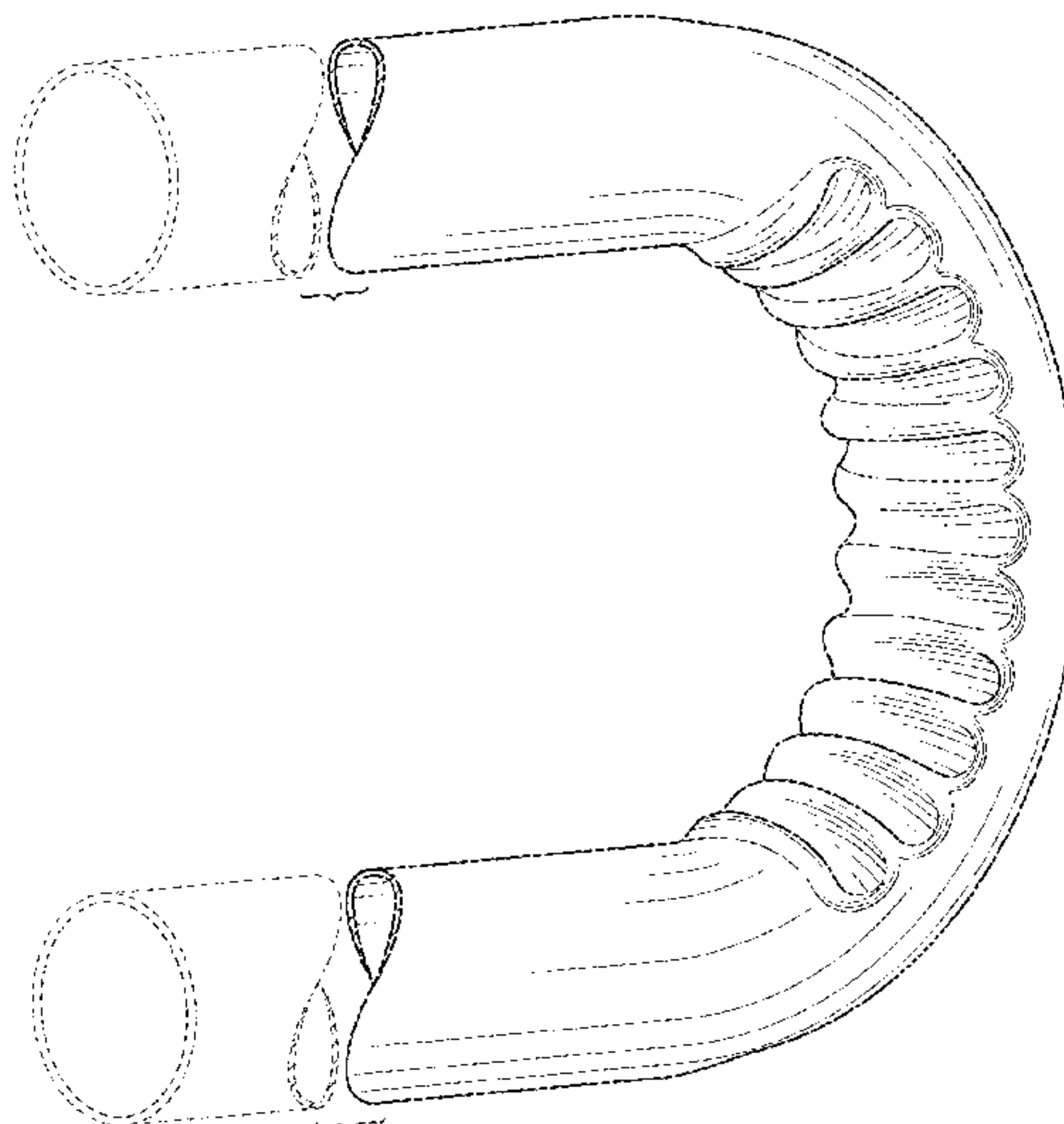
FIG. 1 is a front perspective view of an indirect heat
exchanger tube controlled wrinkle bend;
FIG. 2 is a right side view thereof, the left side view being
a mirror image thereof;
FIG. 3 is a front view thereof;
FIG. 4 is a rear view thereof; and,
FIG. 5 is a top view thereof, the bottom view being a mirror
image thereof.

The broken lines in the drawings illustrate portions of the
indirect heat exchanger tube controlled wrinkle bend that
form no part of the claimed design.

The dot-dash-dot broken lines in the drawings define bounds
of the claim and form no part thereof.

The indirect heat exchanger tube controlled wrinkle bend is
shown with a symbolic break in its length. The break lines
and the appearance of any portion of the indirect heat
exchanger tube controlled wrinkle bend between the break
lines form no part of the claimed design.

1 Claim, 4 Drawing Sheets



(58) **Field of Classification Search**
CPC ... 21/12; F16B 2021/14; E04H 4/1272; E04H
4/14; B01D 35/00; E03C 1/262
See application file for complete search history.

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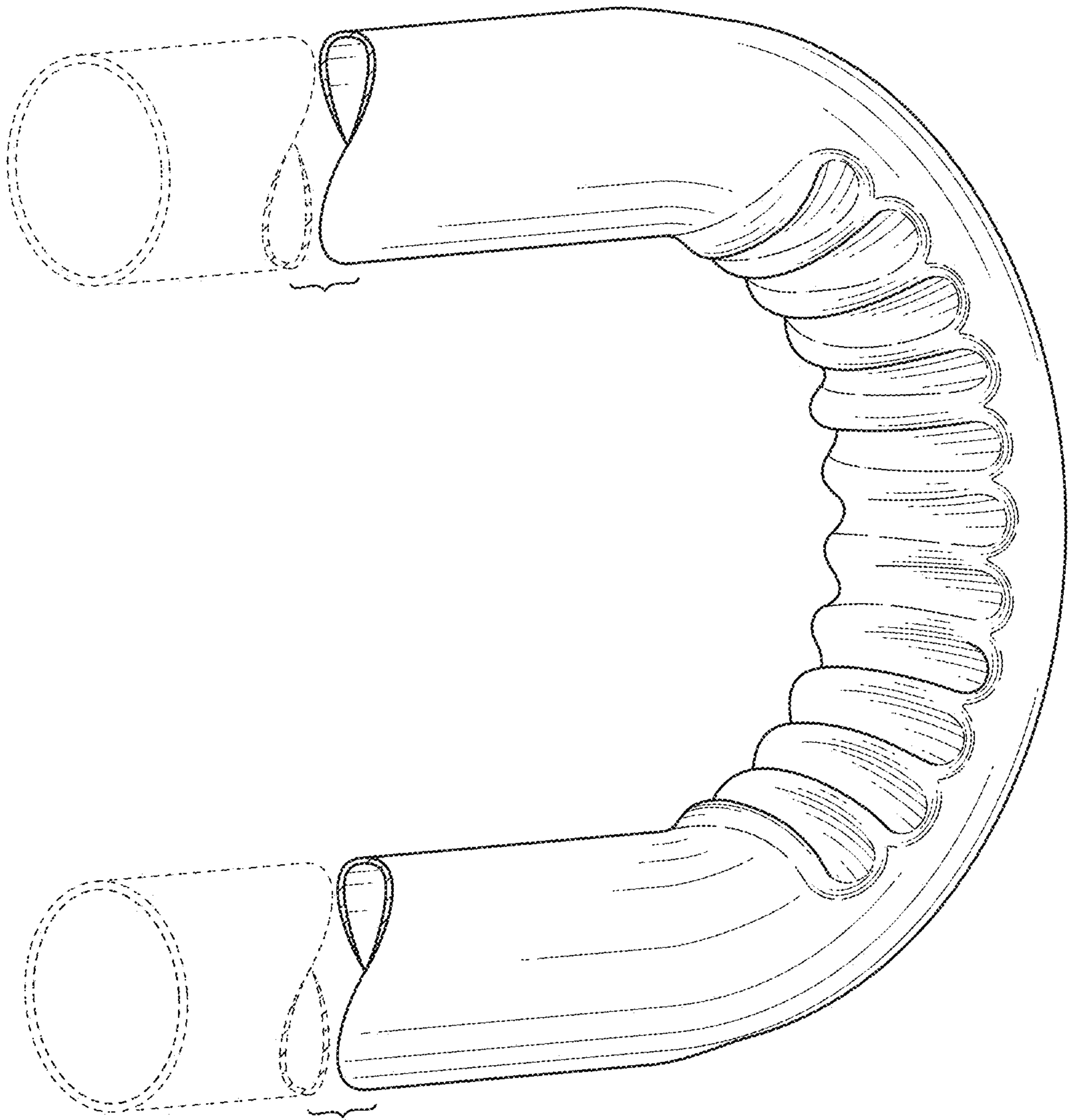


FIG. 1

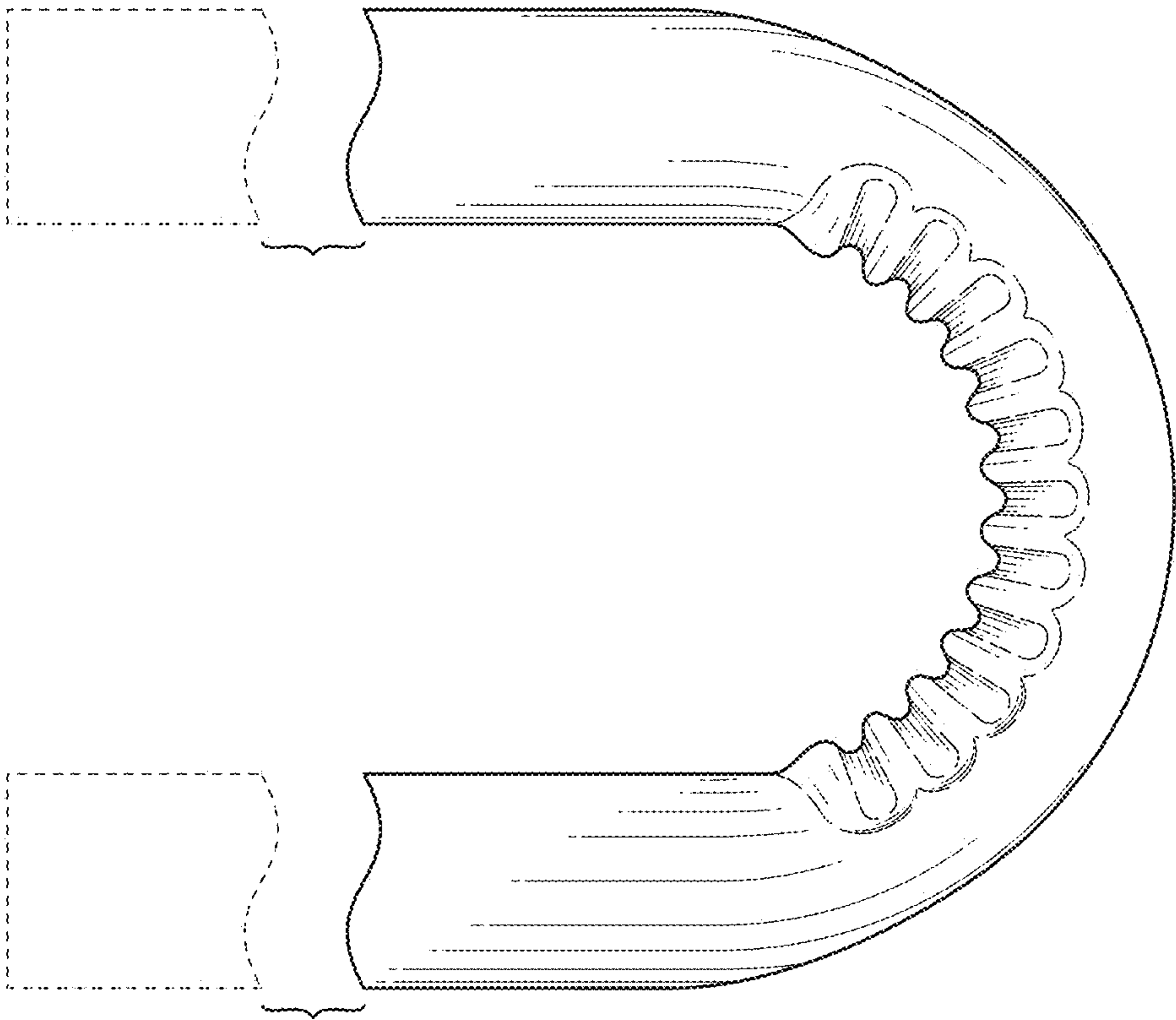


FIG. 2

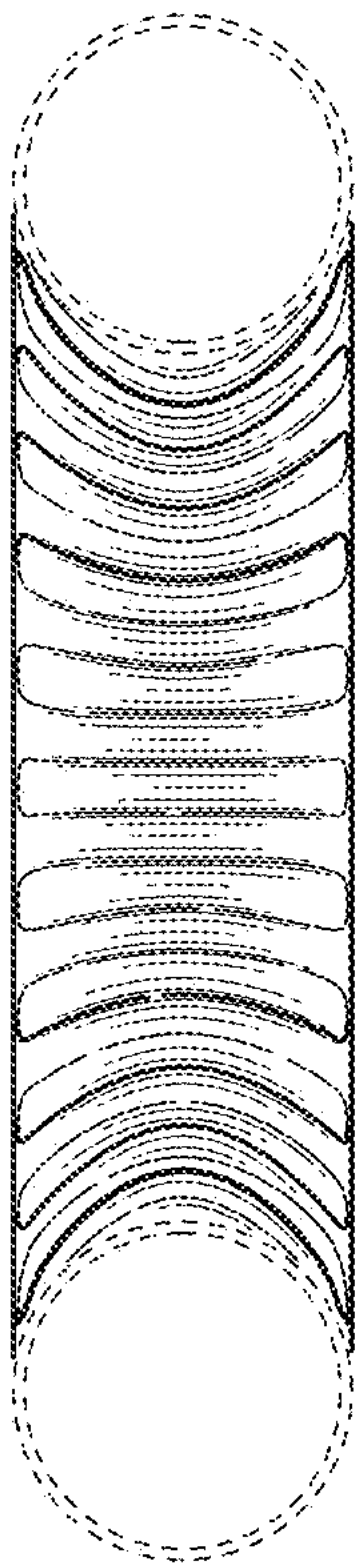


FIG. 3

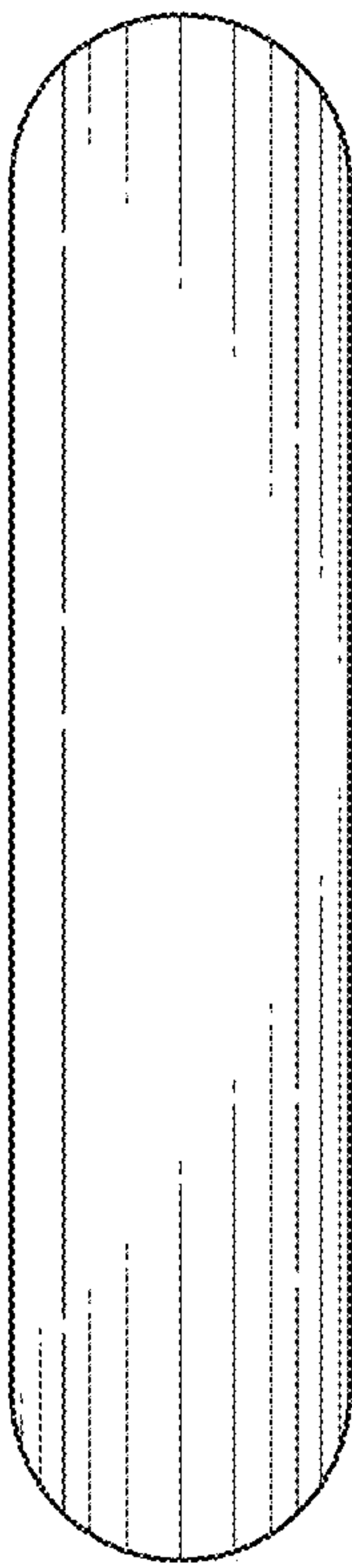


FIG. 4

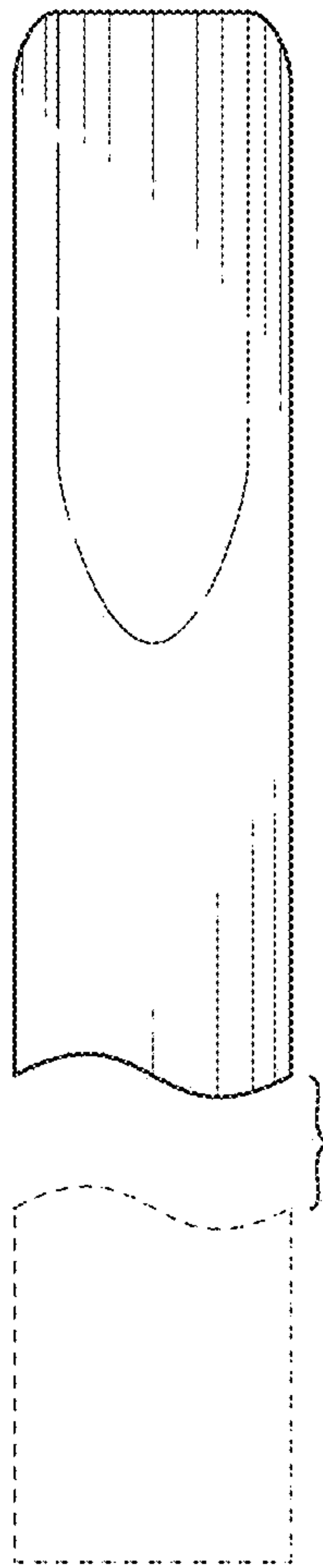


FIG. 5