



US00D810290S

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

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(45) **Date of Patent:** **** Feb. 13, 2018**

(54) **SURGICAL PORTAL DRIVER**

(71) Applicant: **Medovex Corp.**, Cumming, GA (US)

(72) Inventors: **Robert D. Carter**, Apple Valley, MN (US); **Jacob Blank**, Minneapolis, MN (US); **Scott M.W. Haufe**, Niceville, FL (US)

(73) Assignee: **Medovex Corp.**, Cumming, GA (US)

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

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(51) **LOC (11) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/144**

(58) **Field of Classification Search**
USPC D24/144, 170, 146, 133, 127-129

(Continued)

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Primary Examiner — Wan Laymon

(74) *Attorney, Agent, or Firm* — Myers Bigel, P.A.

(57) **CLAIM**

The ornamental design for a surgical portal driver, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a first embodiment of a surgical portal driver showing our design; FIG. 2 is a rear perspective view thereof; FIG. 3 is a front view thereof; FIG. 4 is a first side view thereof; FIG. 5 is a rear view thereof; FIG. 6 is a side view thereof, opposite that shown in FIG. 4; FIG. 7 is another side view thereof, 90 degrees offset from that shown in FIG. 6; FIG. 8 is another side view thereof, opposite that shown in FIG. 7; FIG. 9 is an exemplary environmental view illustrating the surgical portal driver engaged with a working portal (also known as a guide cannula) according to embodiments of the present invention; FIG. 10 is a front perspective view of a second embodiment of a surgical portal driver showing our design; FIG. 11 is a rear perspective view thereof; FIG. 12 is a front view thereof; FIG. 13 is a first side view thereof; FIG. 14 is a rear view thereof; FIG. 15 is a side view thereof, opposite that shown in FIG. 13; FIG. 16 is another side view thereof, 90 degrees offset from that shown in FIG. 15; FIG. 17 is another side view thereof, opposite that shown in FIG. 16; FIG. 18 is an exemplary environmental view illustrating the surgical portal driver engaged with a working portal (also known as a guide cannula) according to embodiments of the present invention; FIG. 19 is a front perspective view of a third embodiment of a surgical portal driver showing our design; FIG. 20 is a rear perspective view thereof; FIG. 21 is a front view thereof; FIG. 22 is a first side view thereof; FIG. 23 is a rear view thereof;

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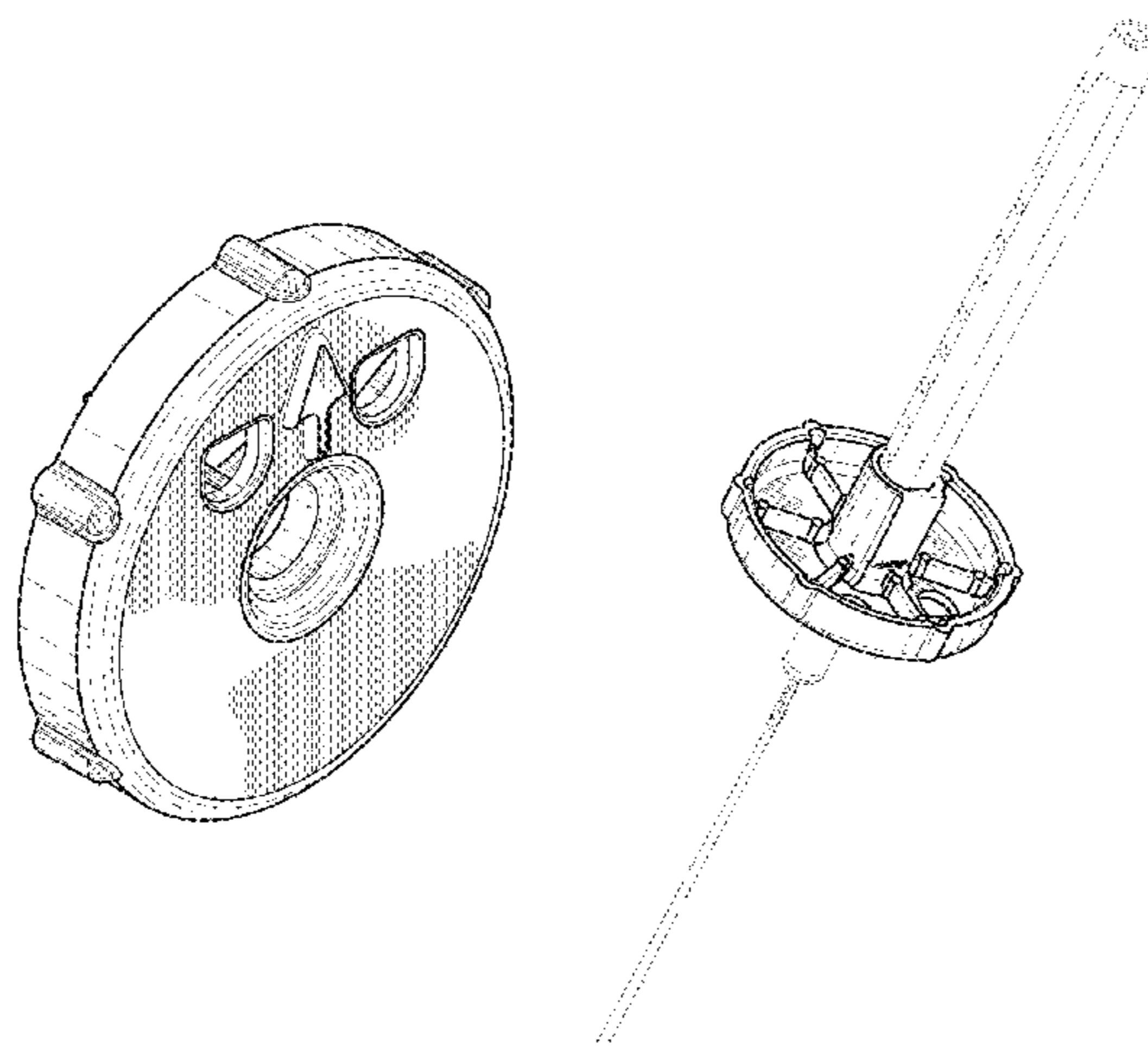


FIG. 24 is a side view thereof, opposite that shown in FIG. 22;
 FIG. 25 is another side view thereof, 90 degrees offset from that shown in FIG. 24;
 FIG. 26 is another side view thereof, opposite that shown in FIG. 25; and,
 FIG. 27 is an exemplary environmental view illustrating the surgical portal driver engaged with a working portal (also known as a guide cannula) according to embodiments of the present invention.
 In the drawings, the broken lines depict environmental subject matter only and form no part of the claimed design.

1 Claim, 15 Drawing Sheets

(58) **Field of Classification Search**

CPC A61B 18/1482; A61B 18/148; A61B 18/1487; A61B 17/3462; A61B 17/3421; A61B 17/3423; A61B 17/1684
 See application file for complete search history.

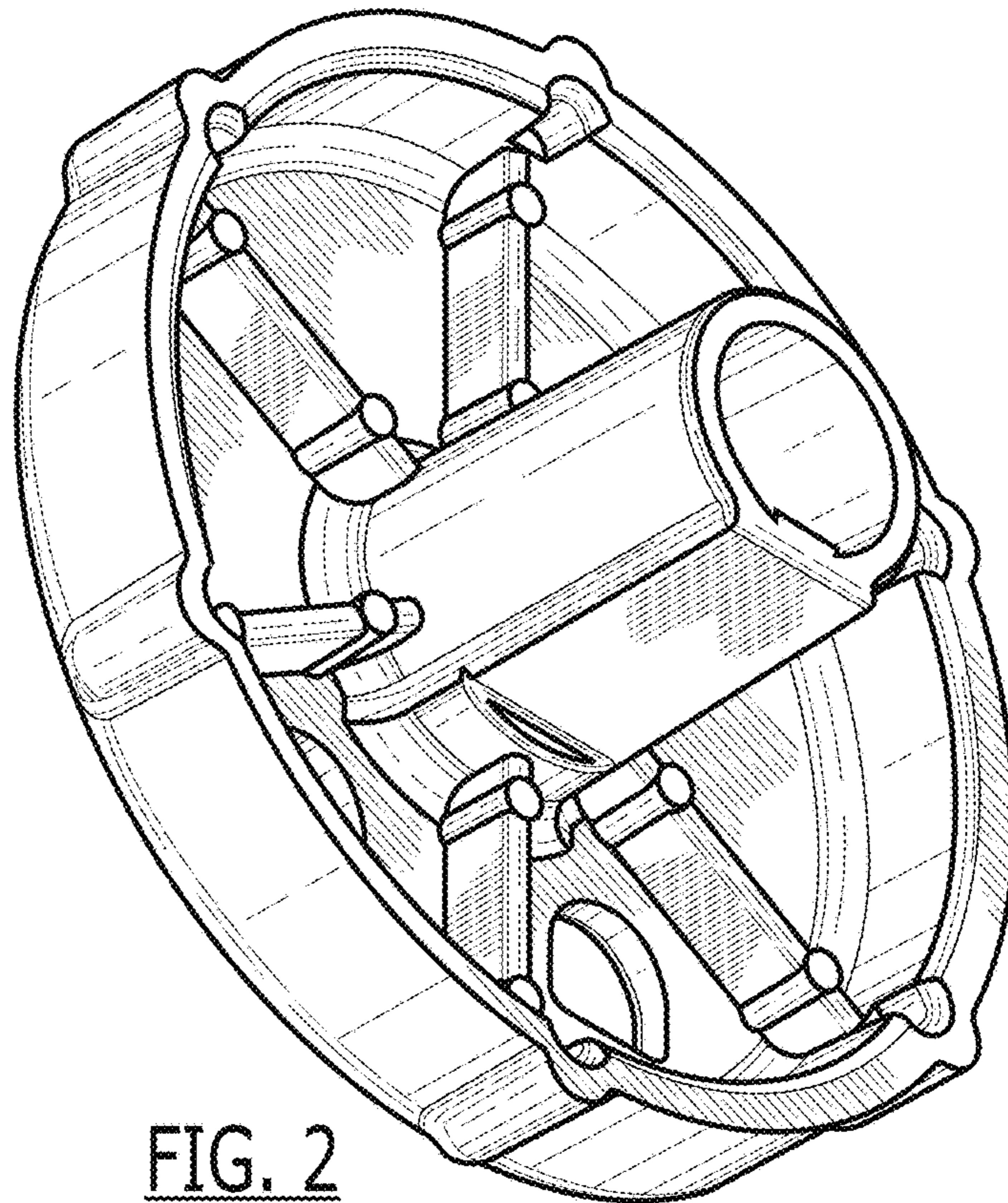
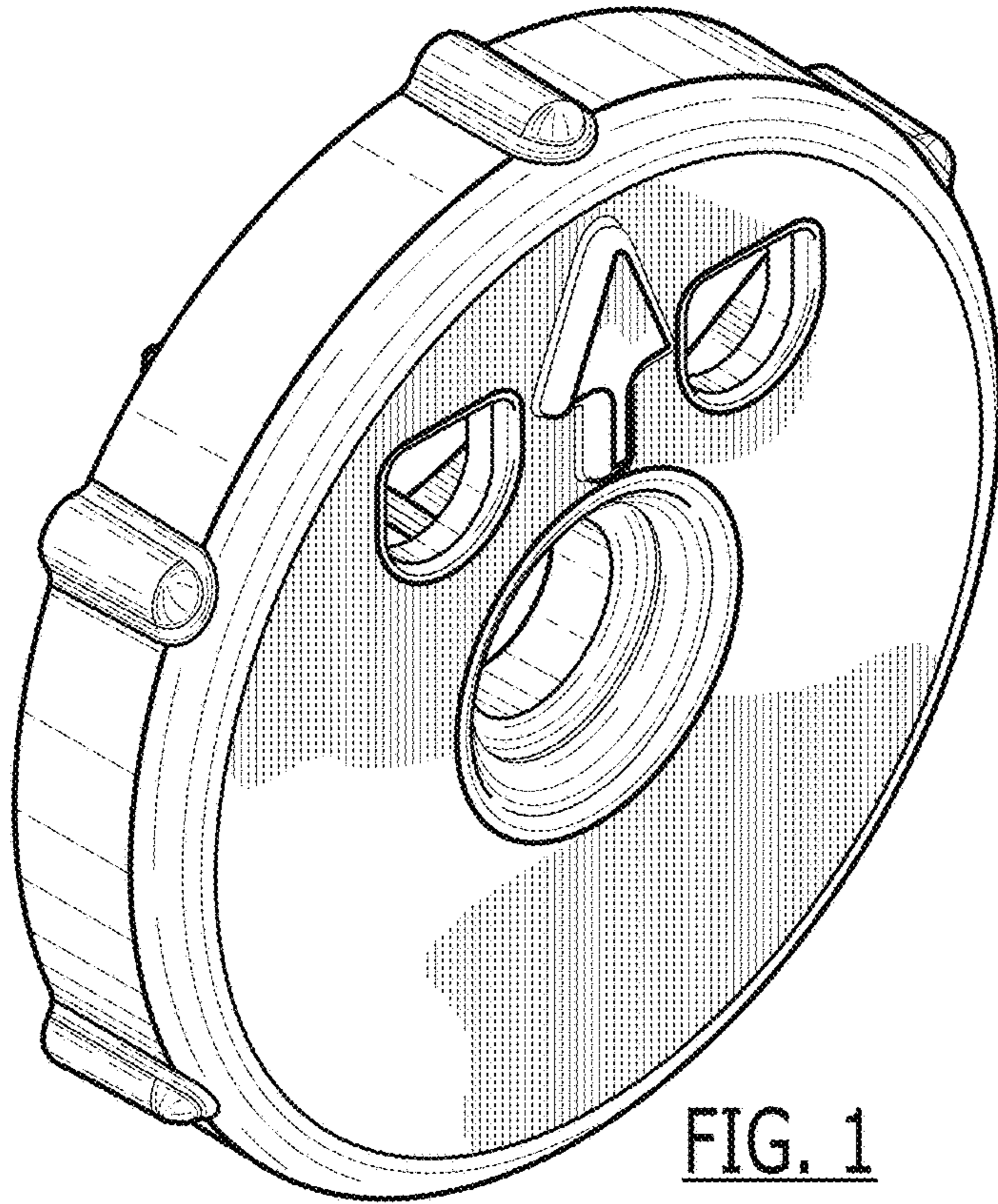
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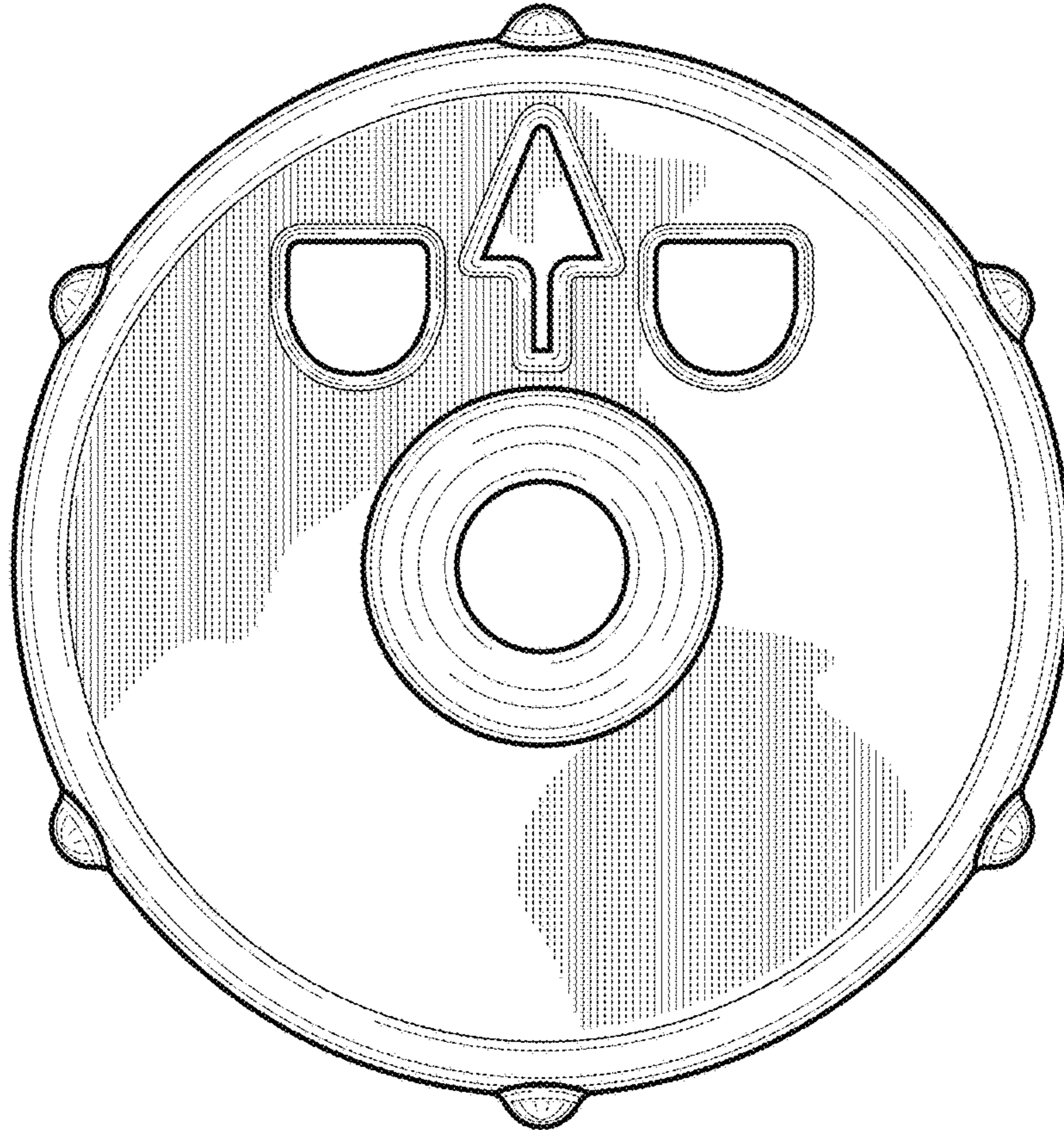


FIG. 3

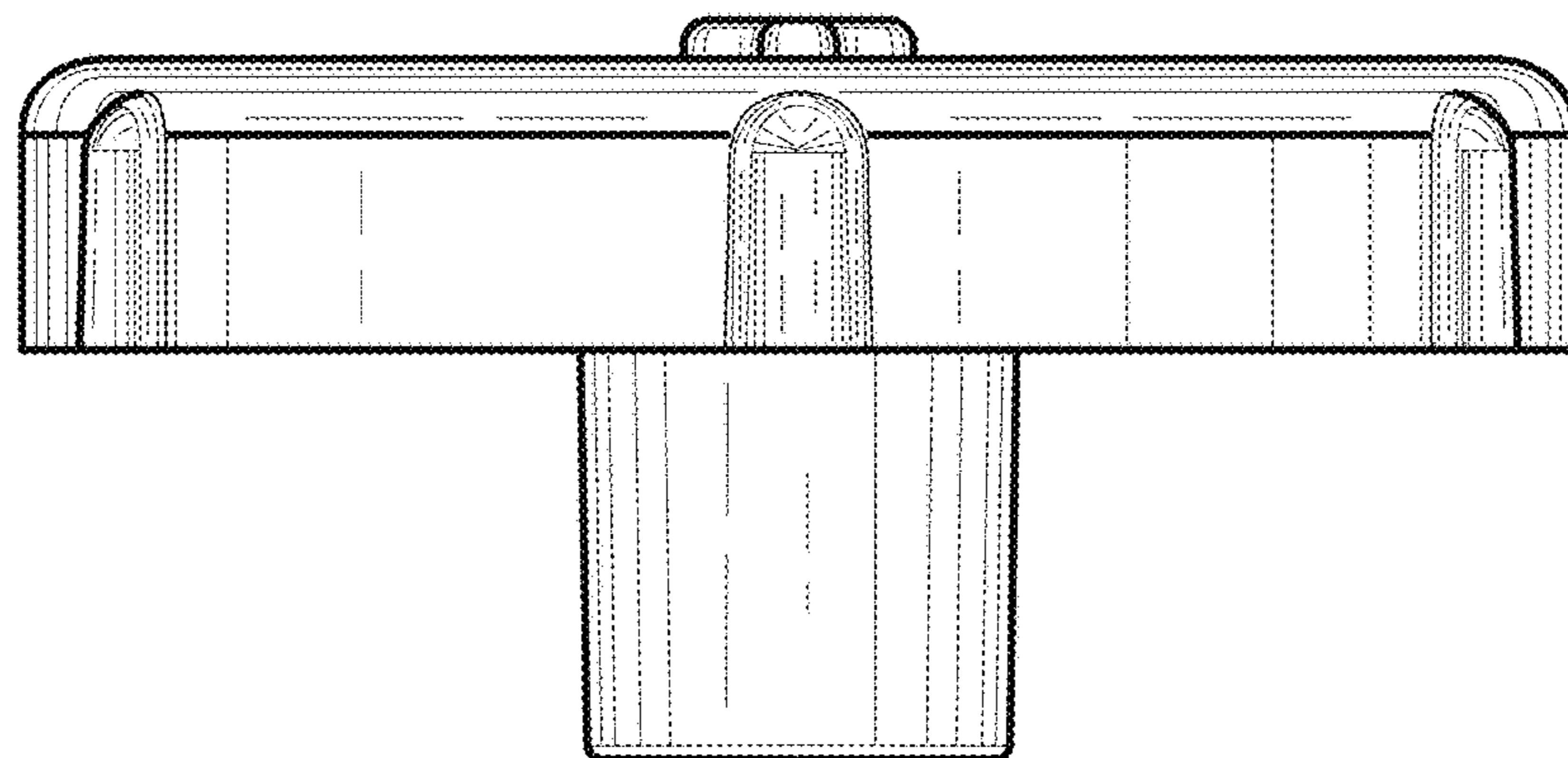


FIG. 4

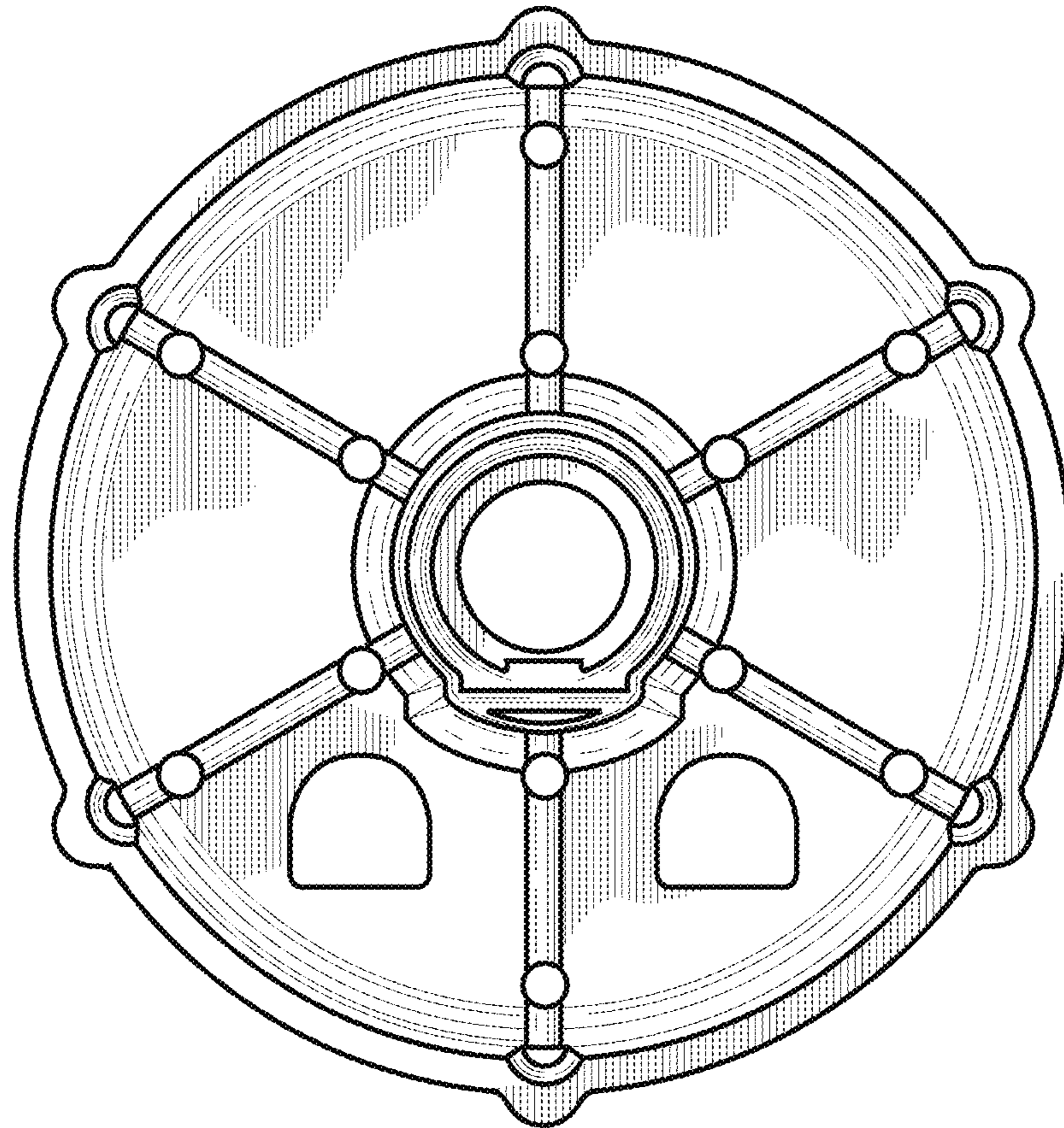


FIG. 5

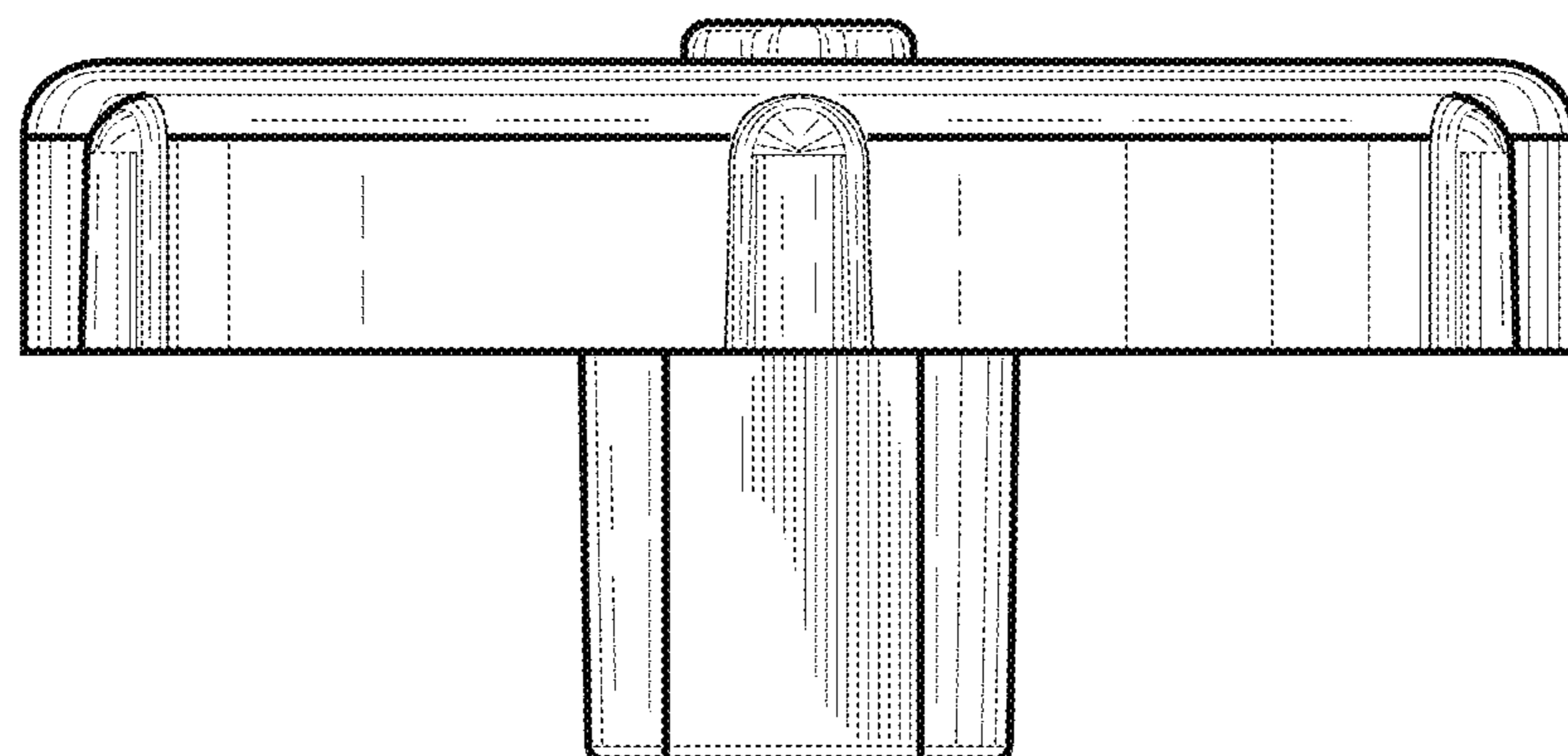
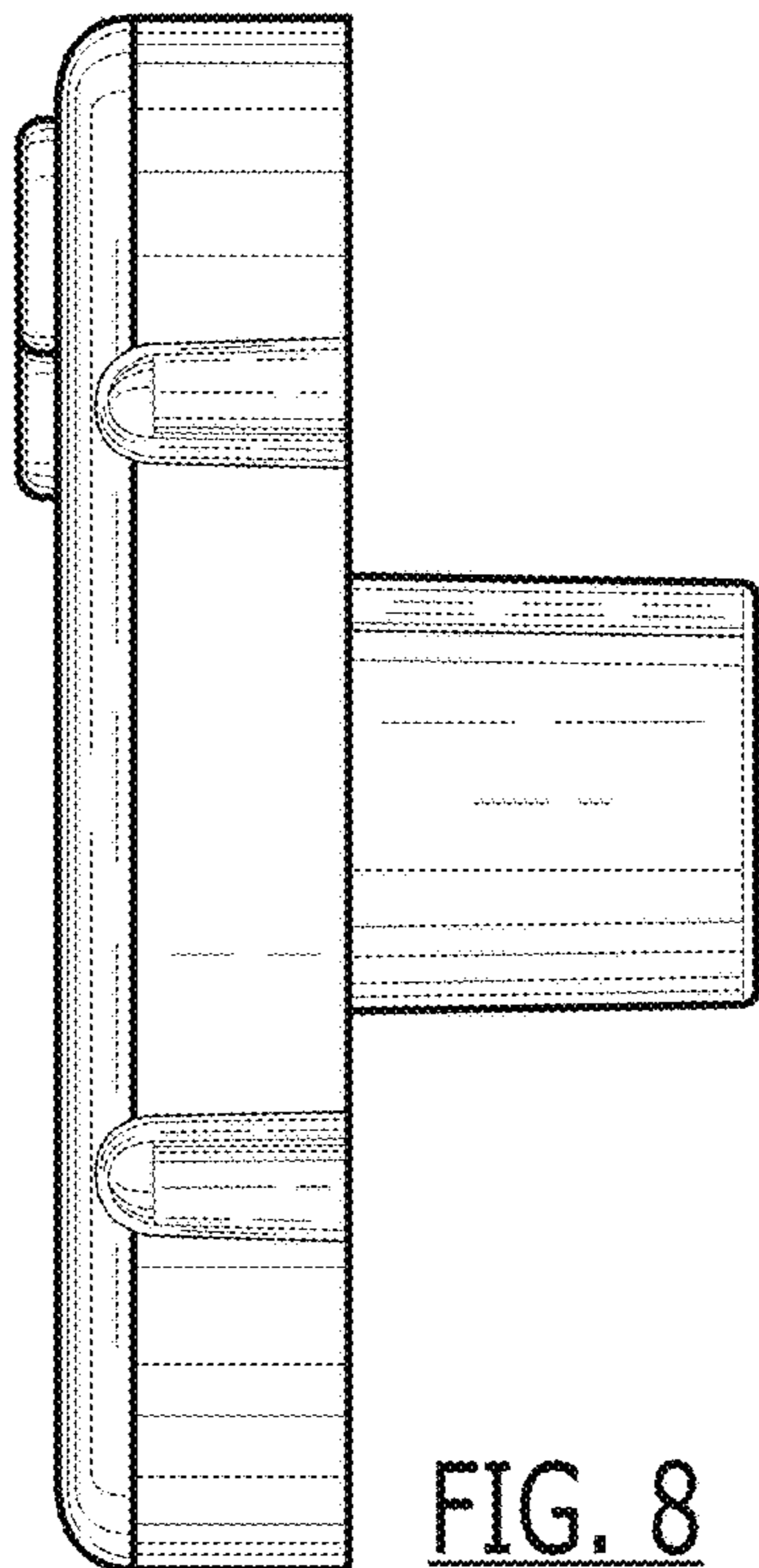
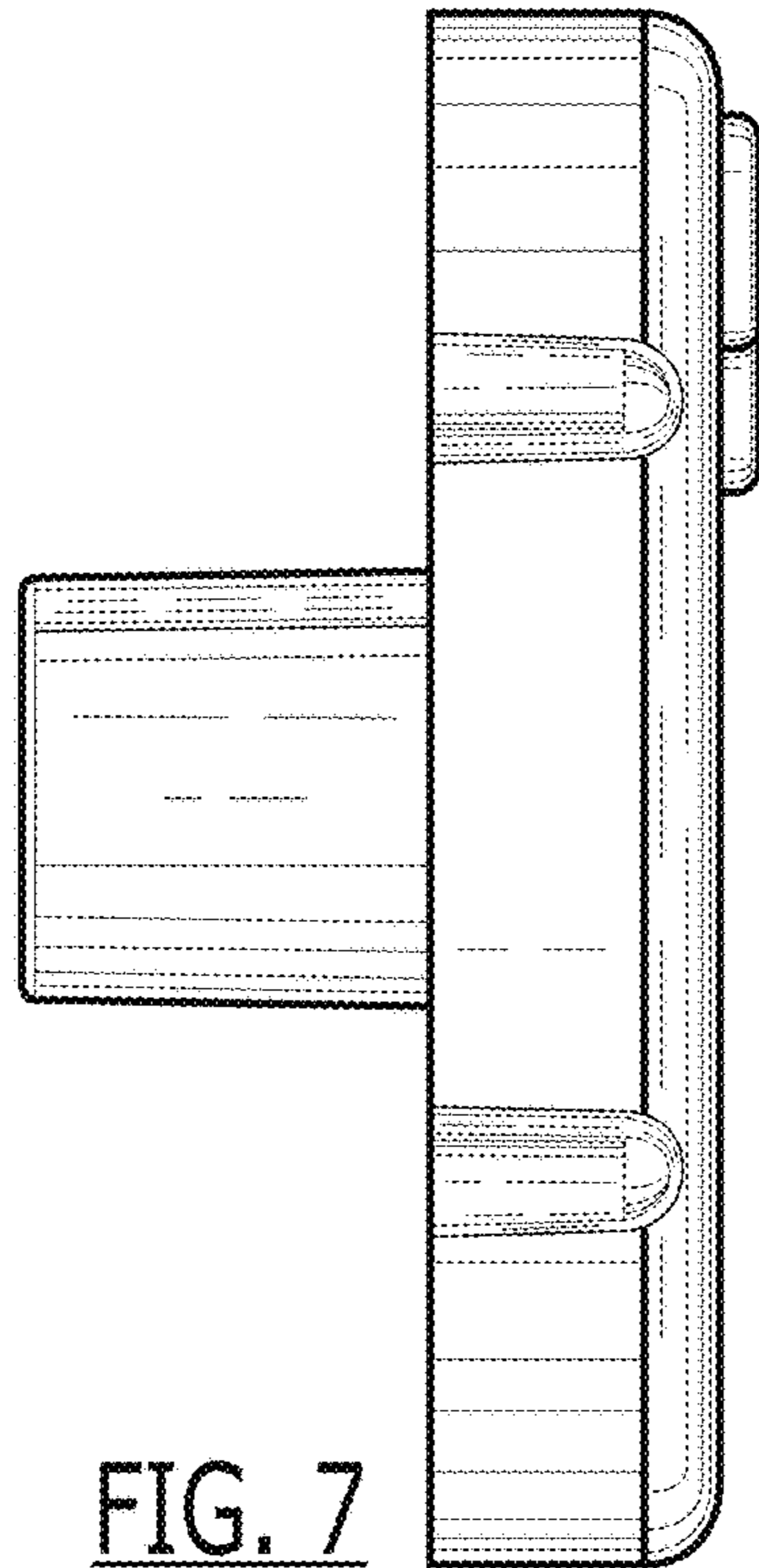


FIG. 6



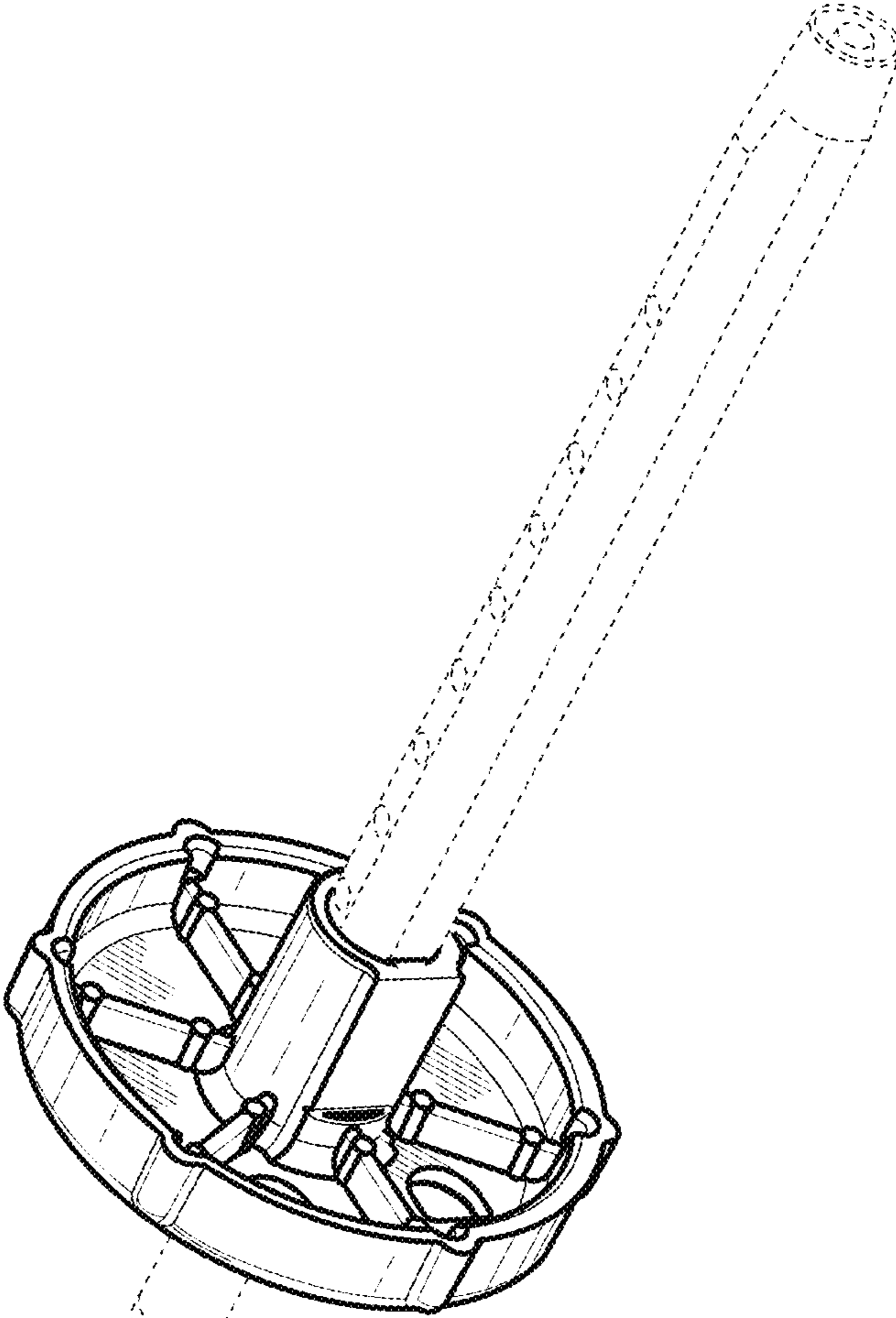


FIG. 9

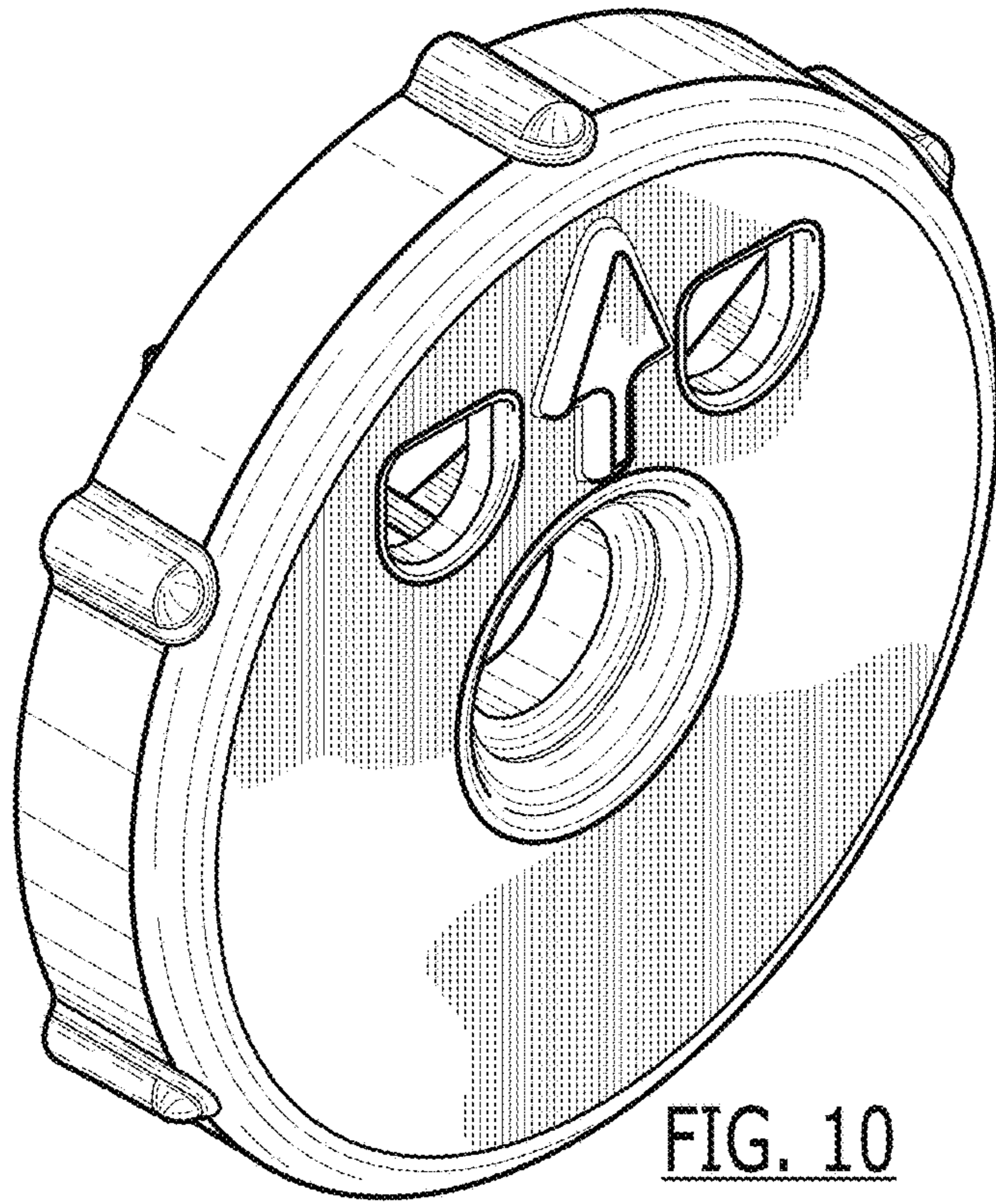


FIG. 10

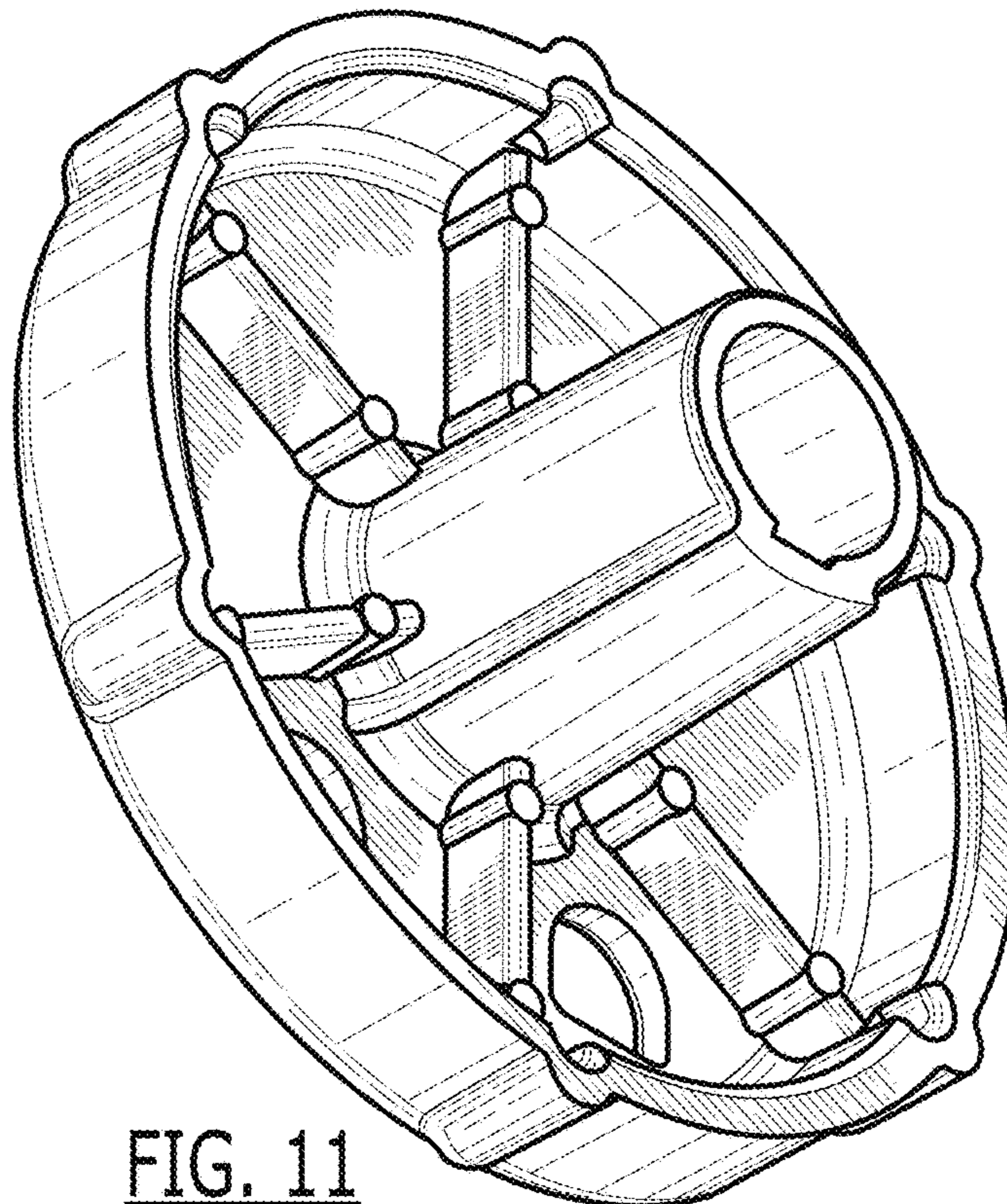


FIG. 11

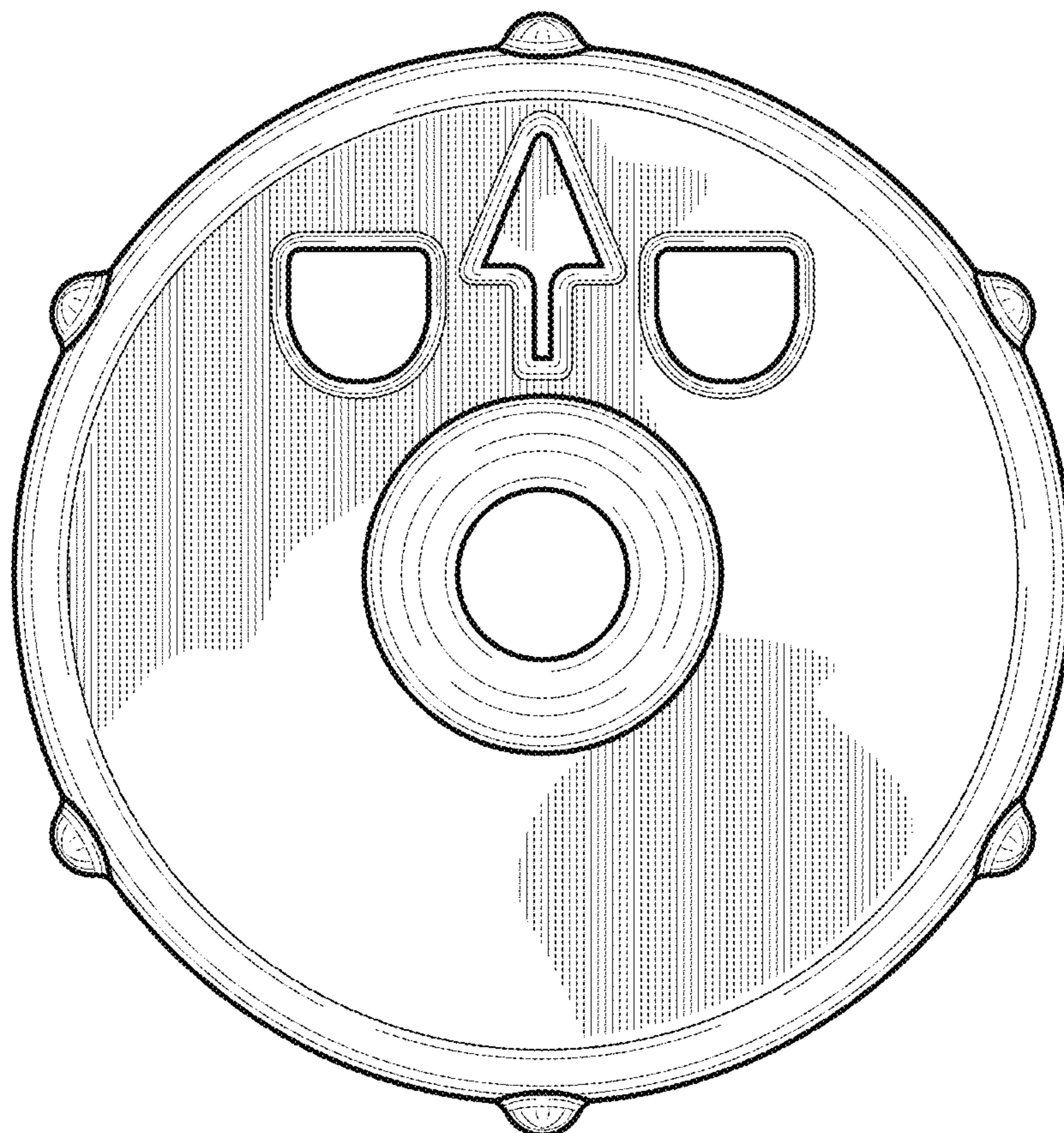


FIG. 12

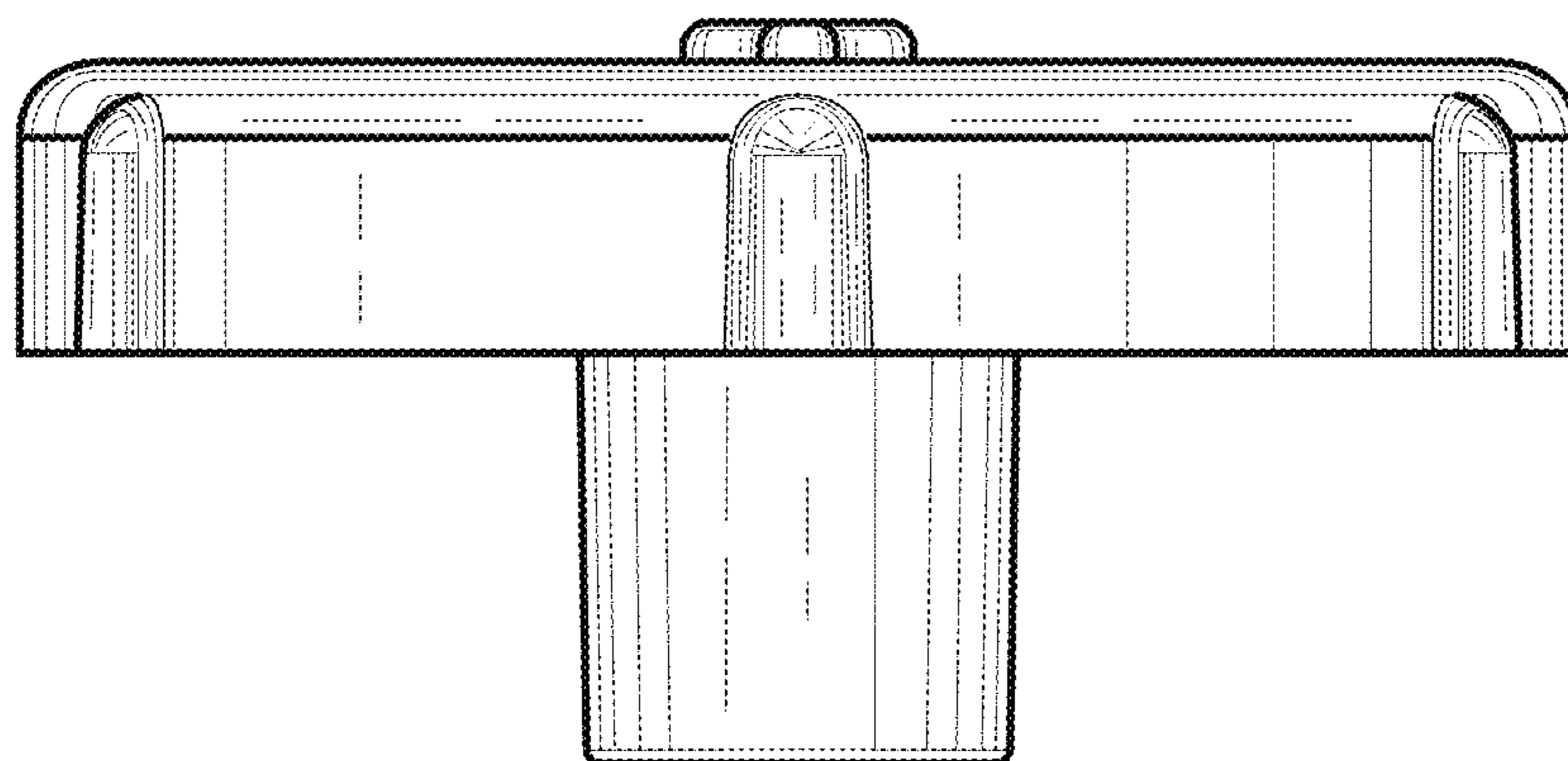


FIG. 13

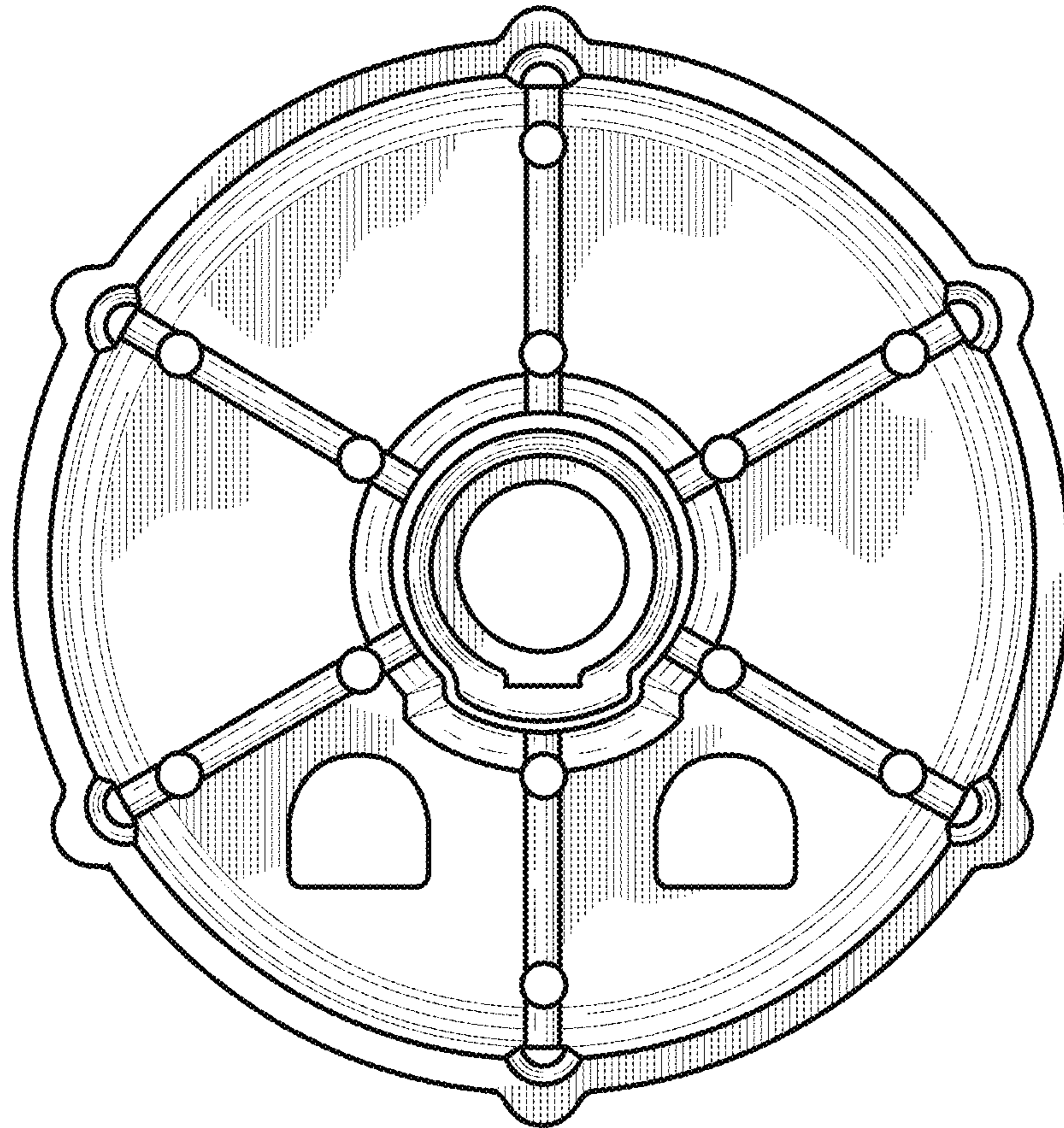


FIG. 14

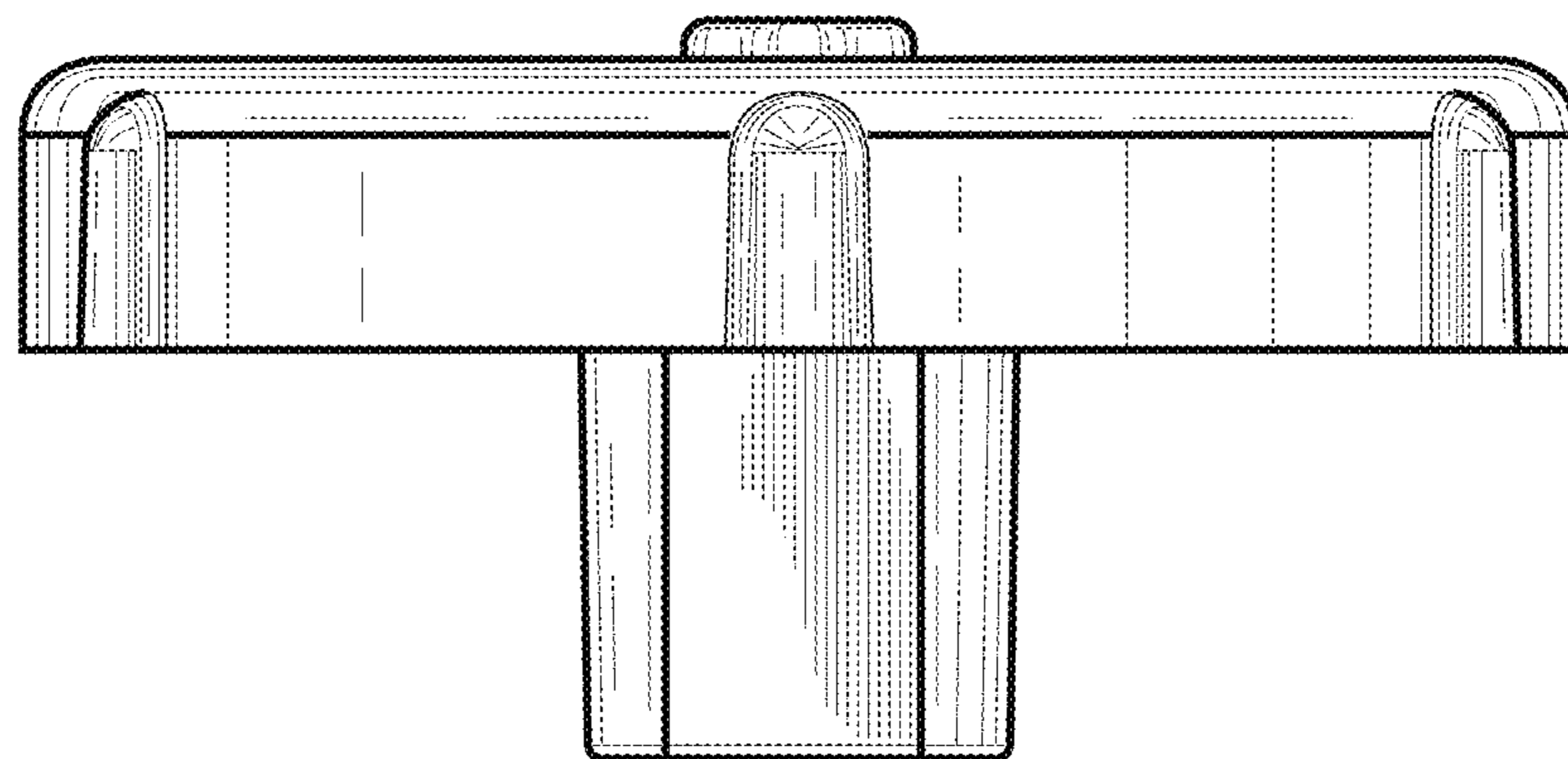
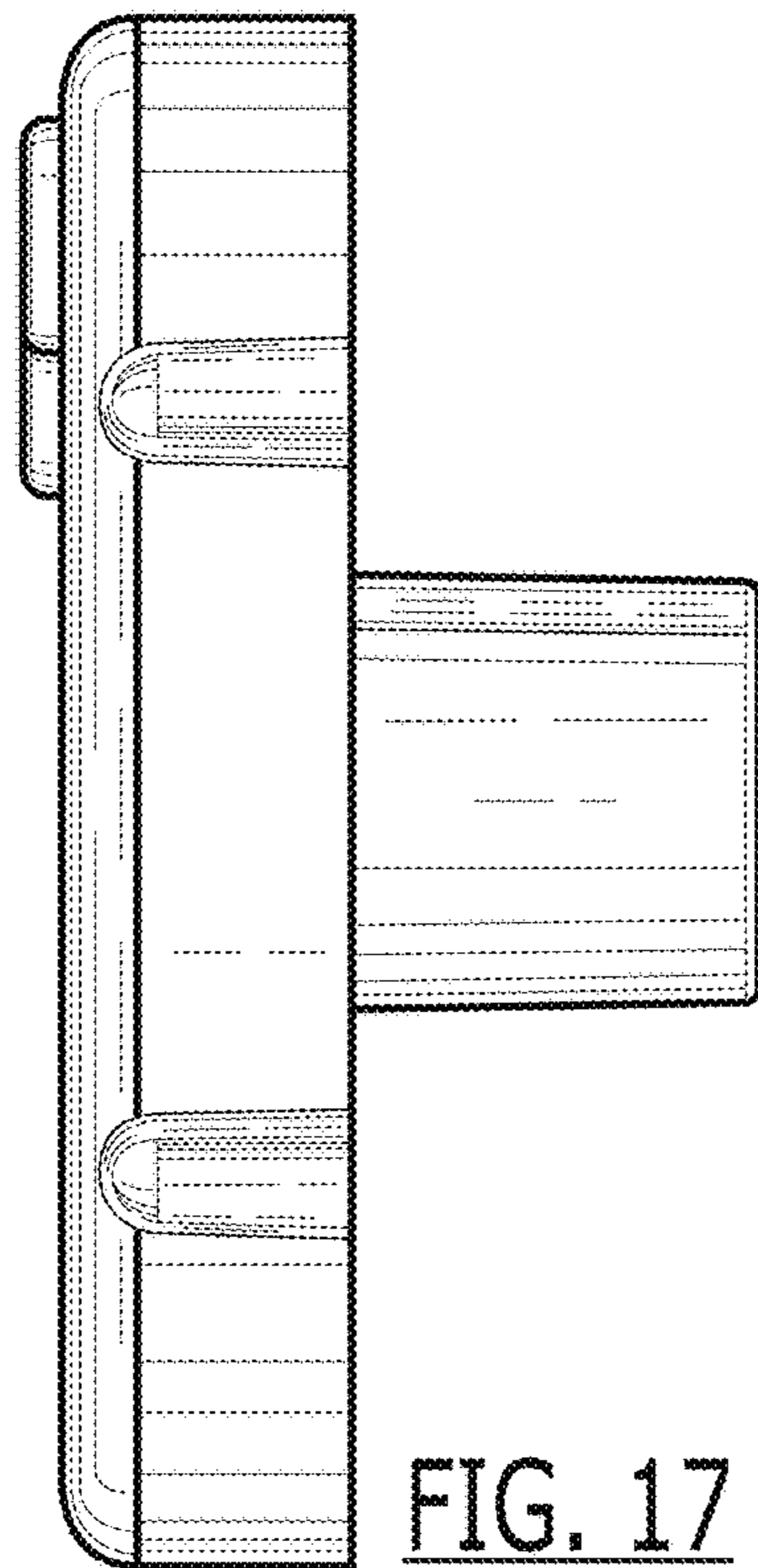
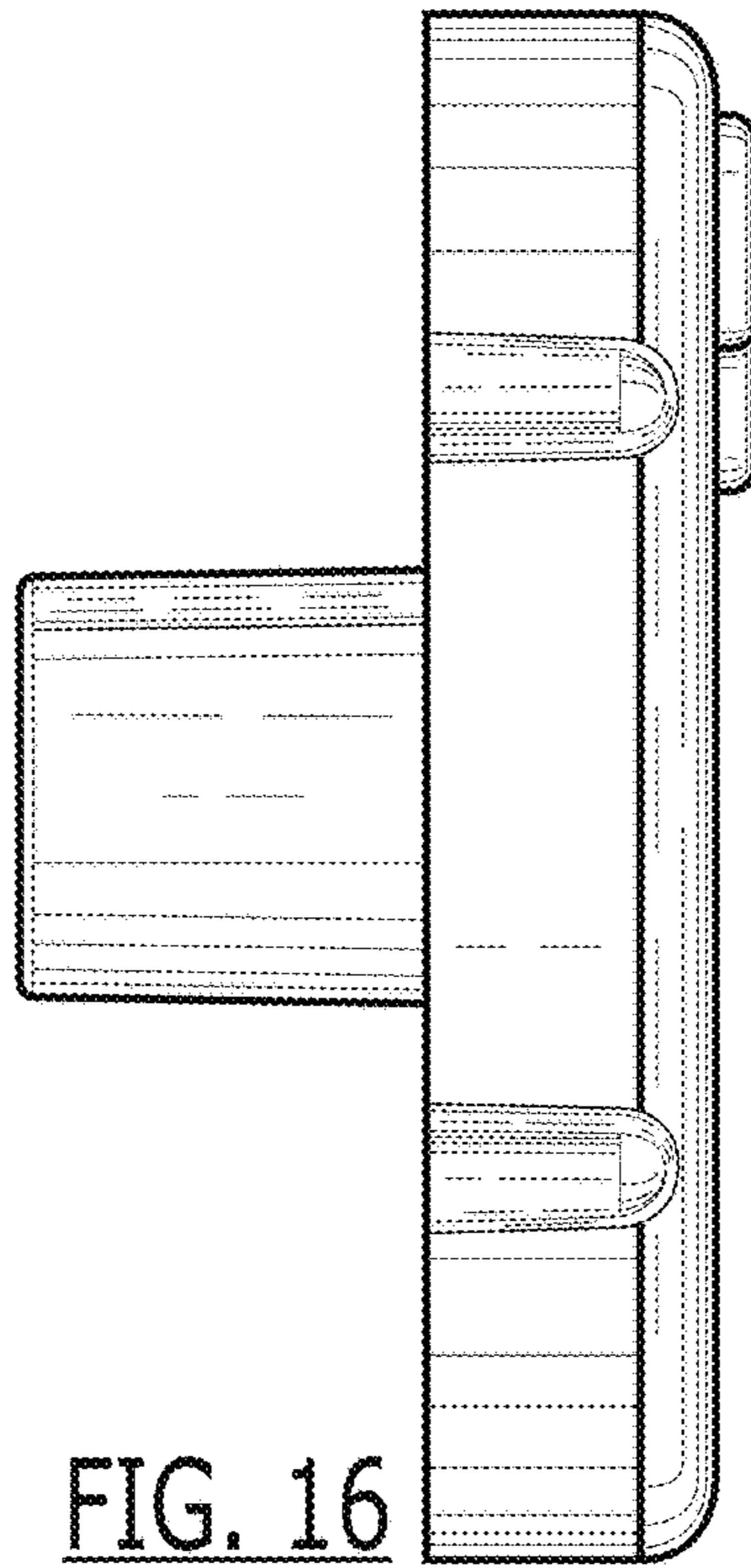


FIG. 15



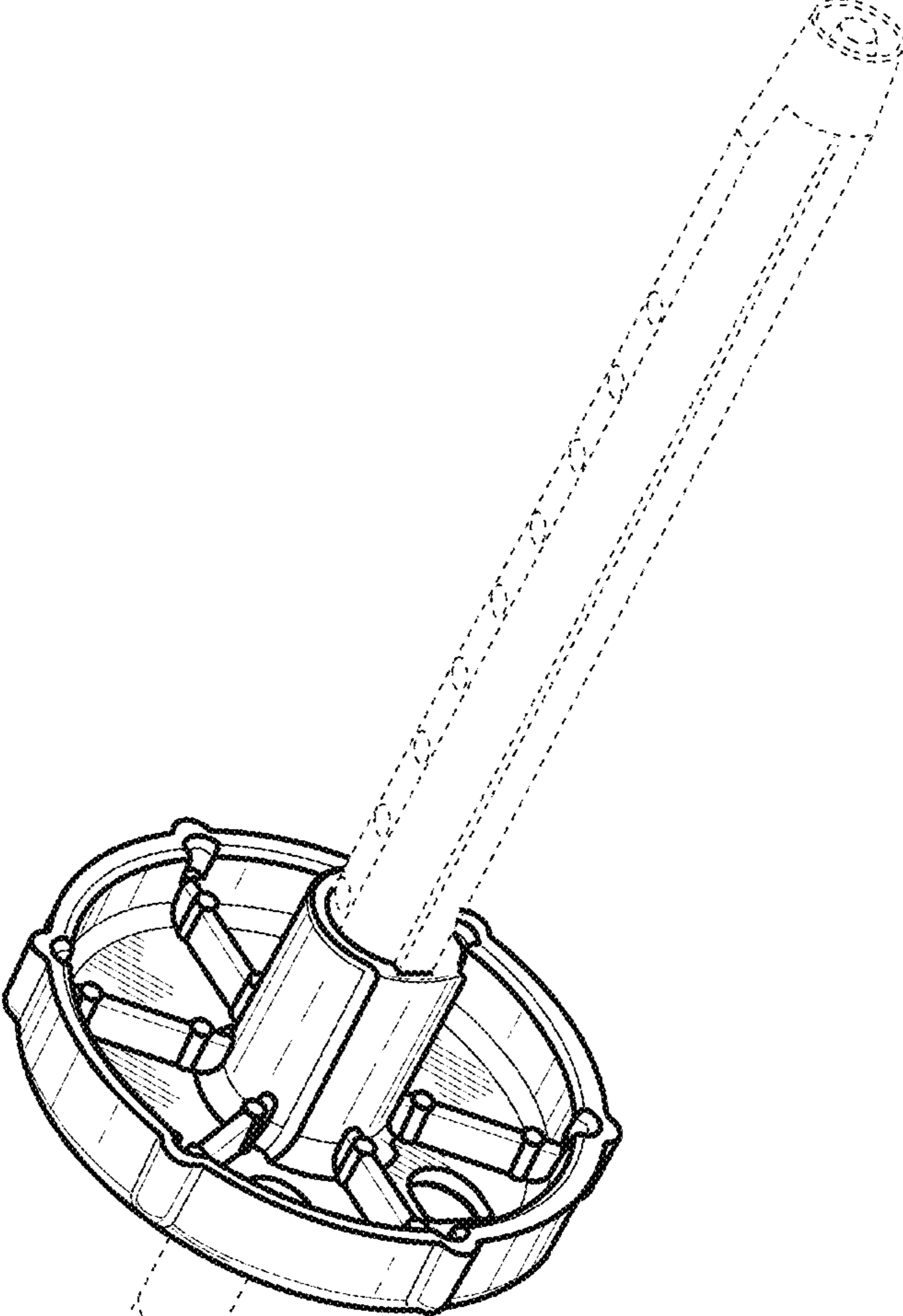


FIG. 18

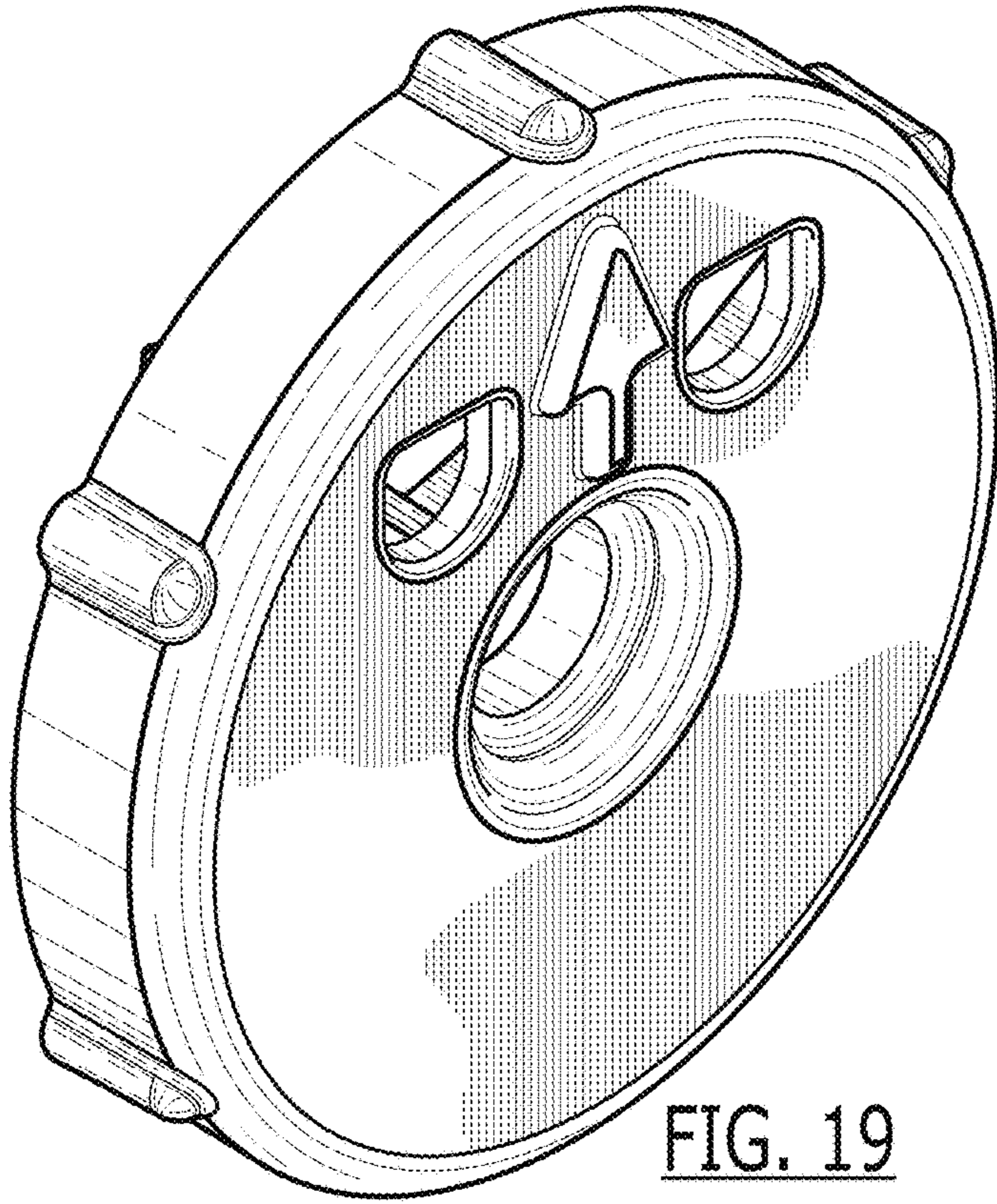


FIG. 19

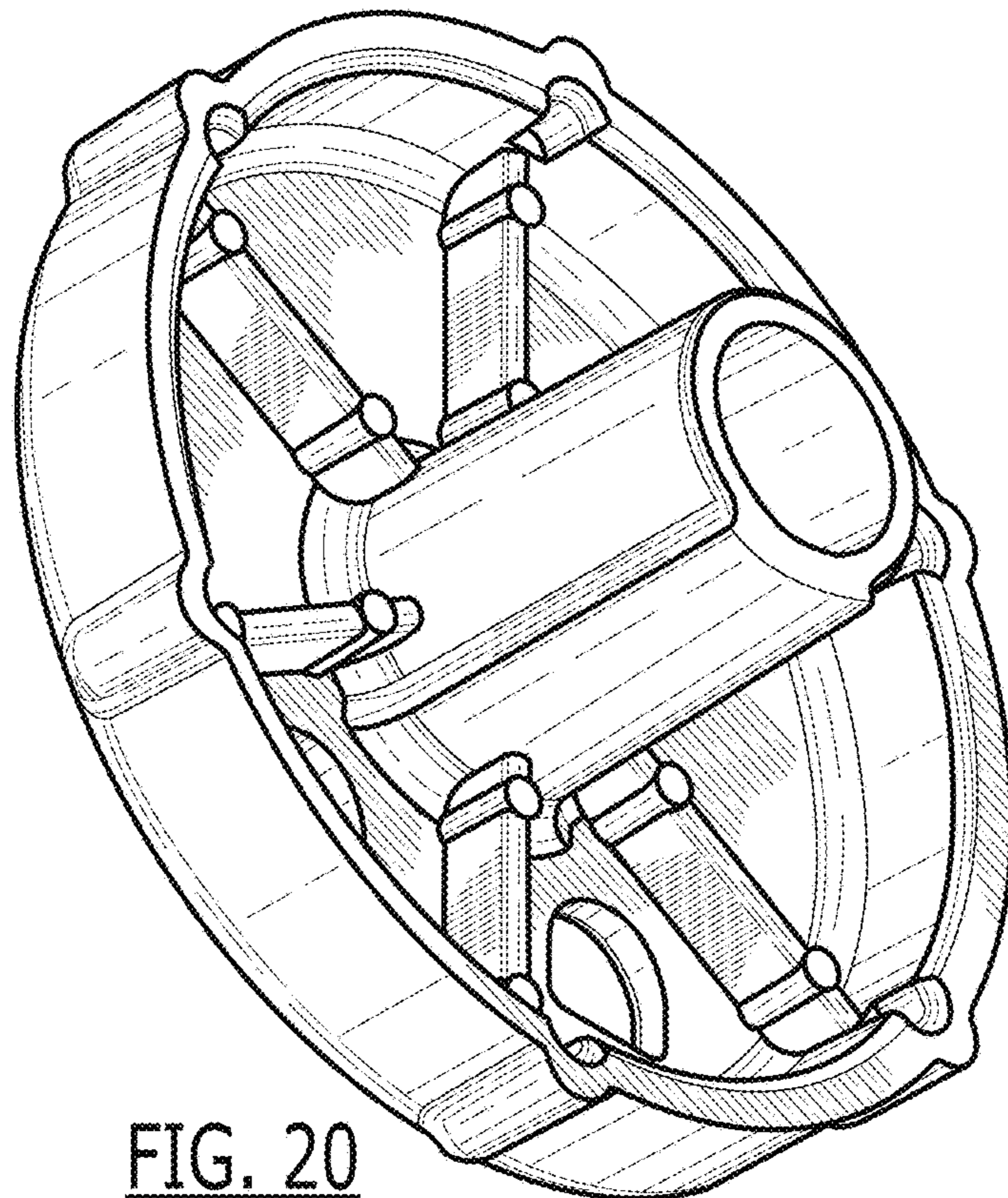


FIG. 20

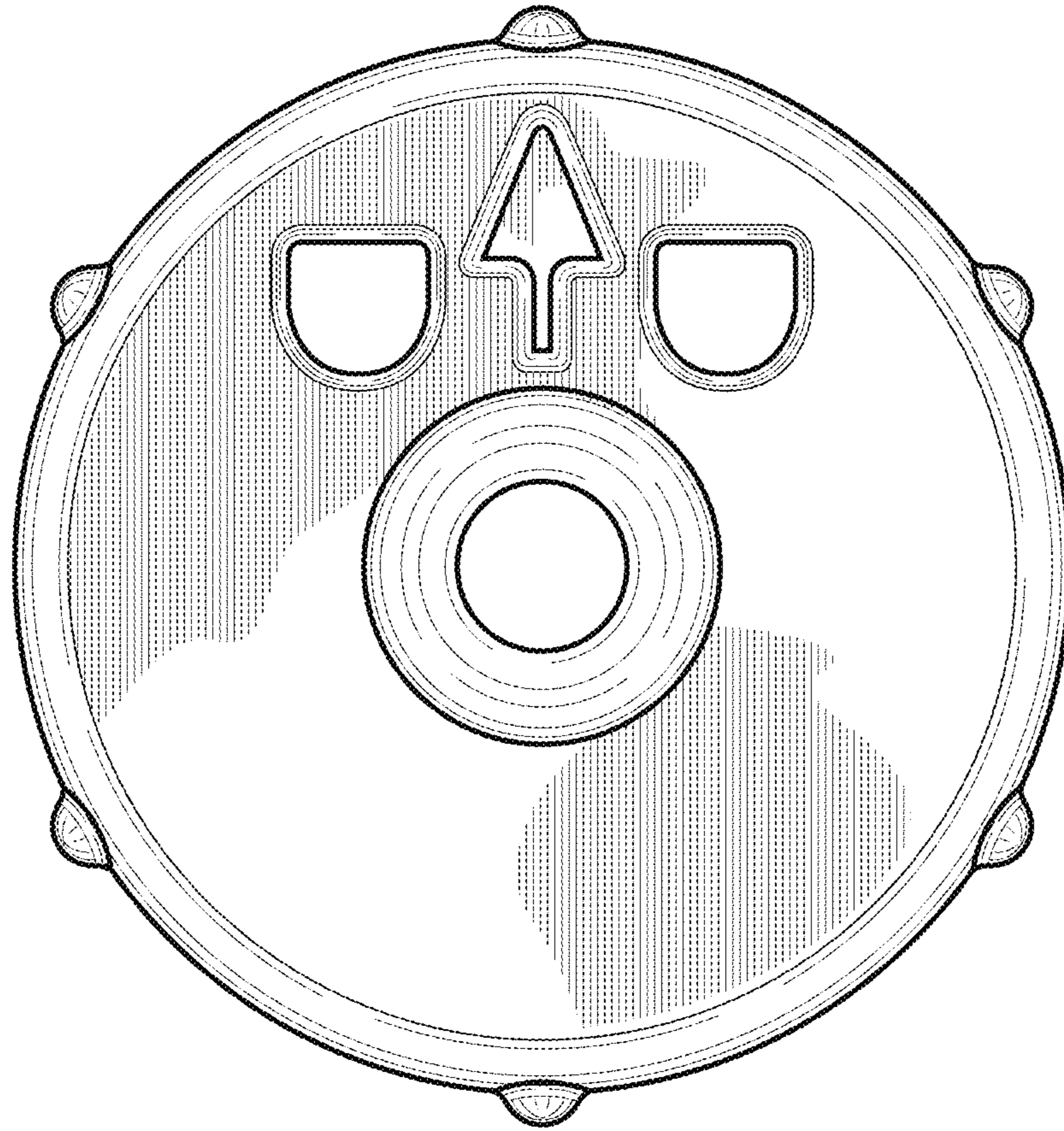


FIG. 21

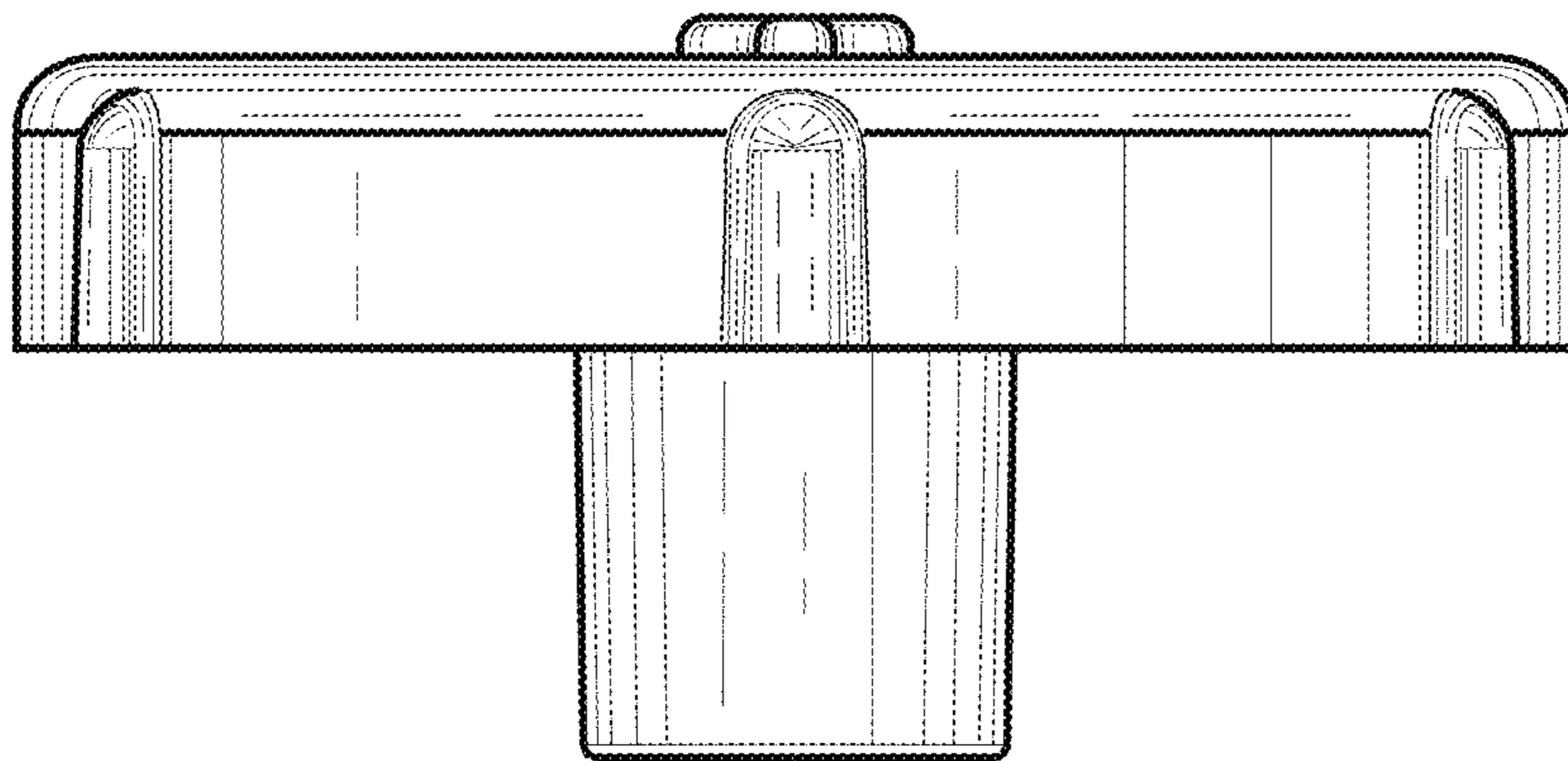


FIG. 22

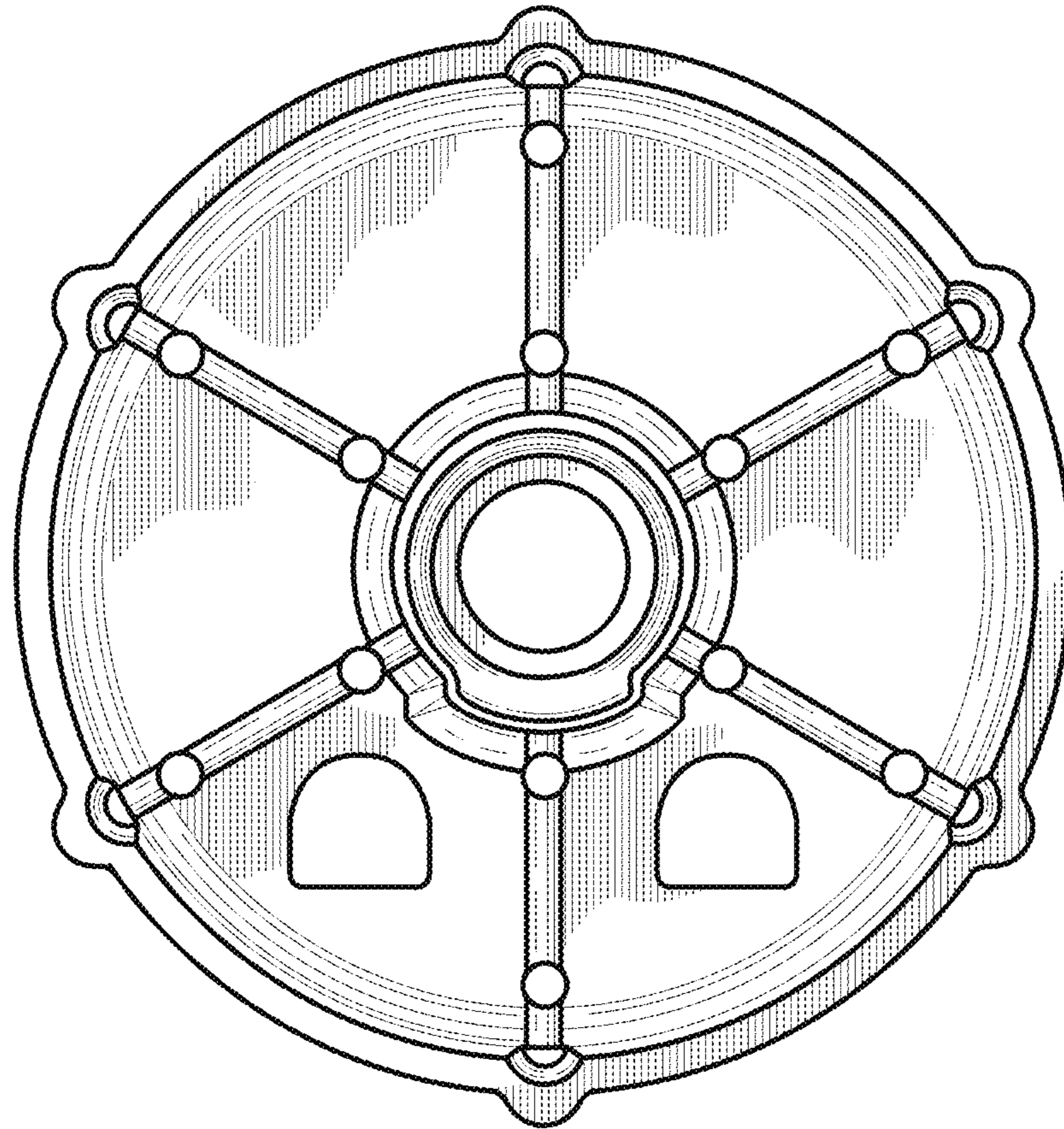


FIG. 23

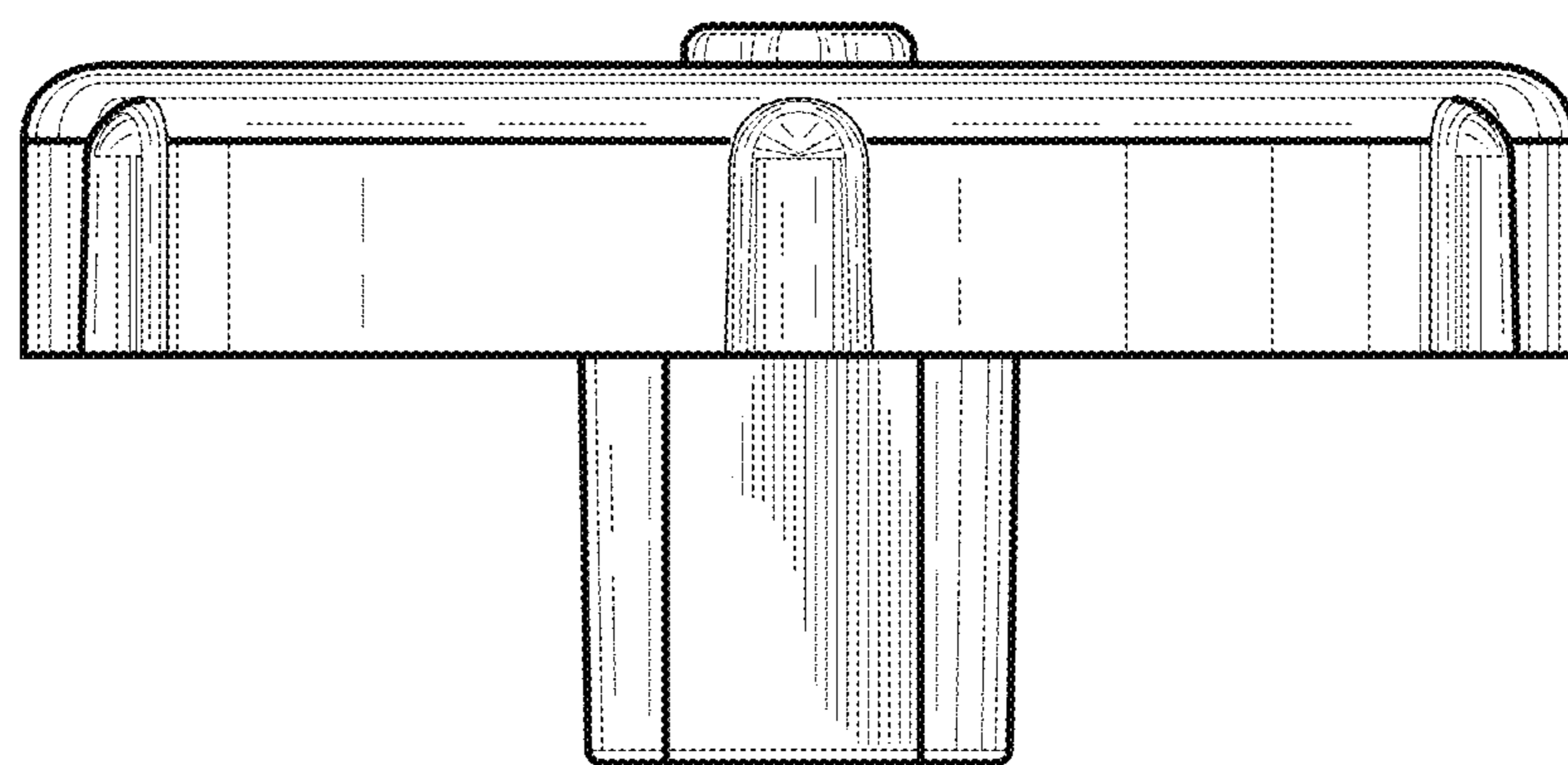
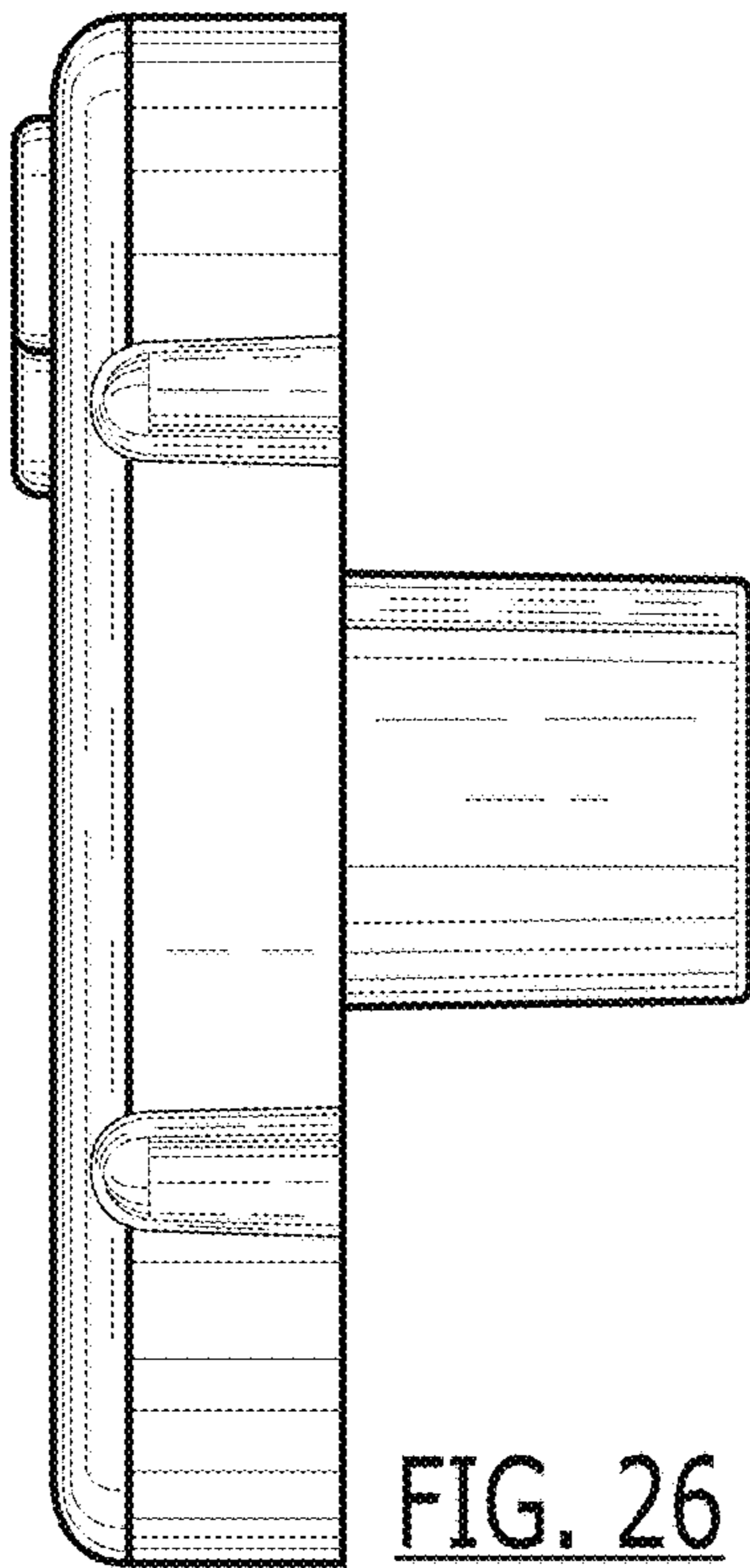
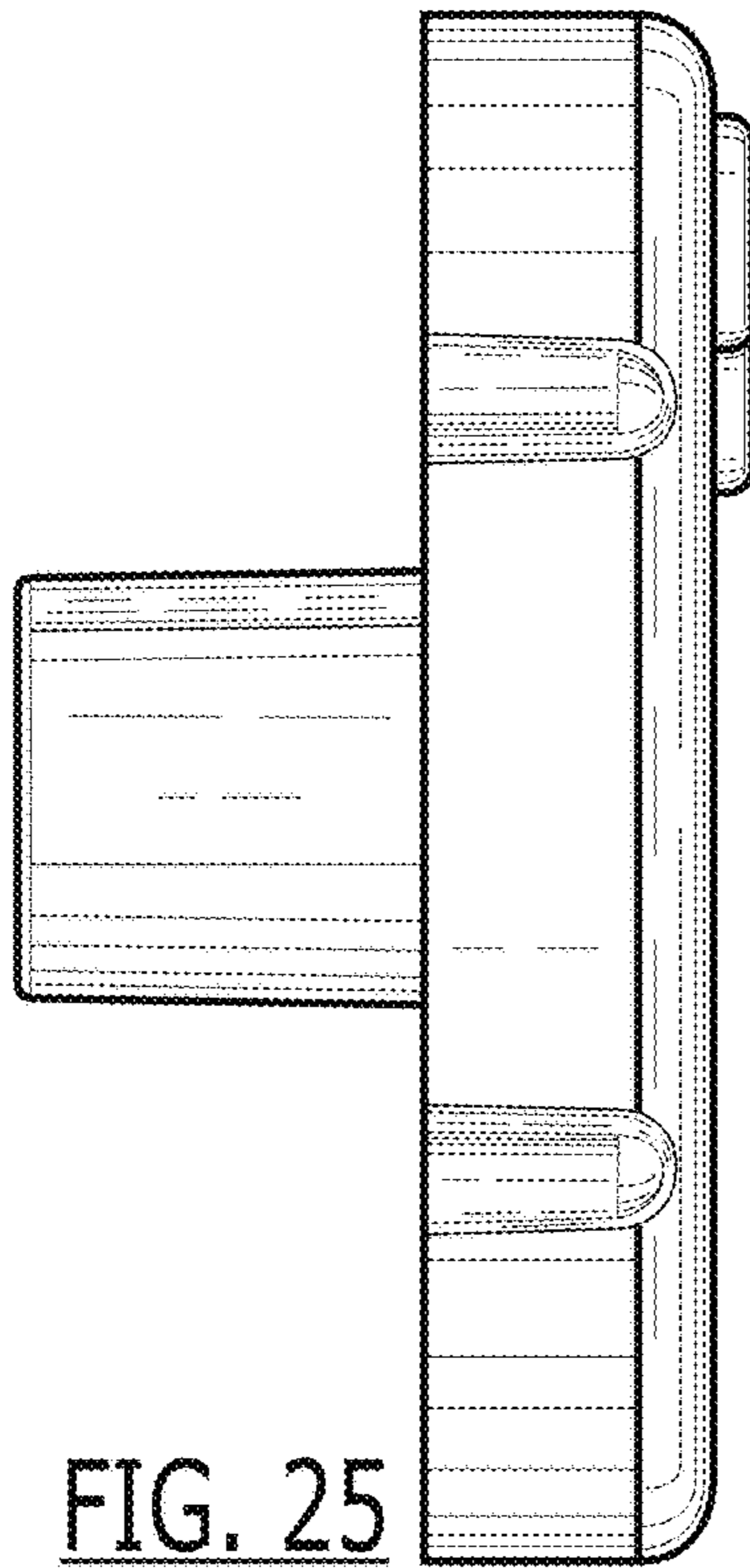


FIG. 24



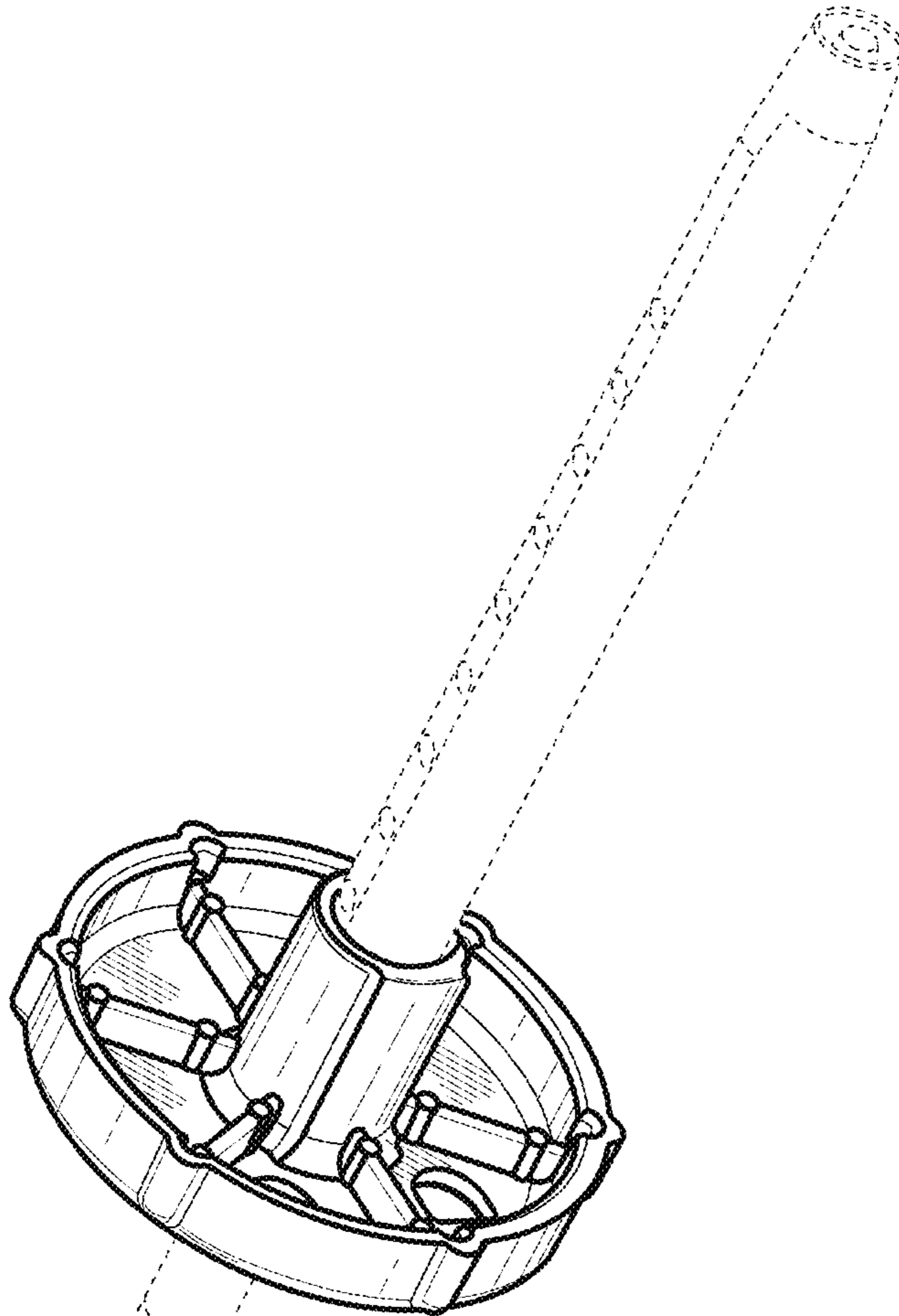


FIG. 27