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

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(54) **HAND HELD DRAIN CLEANING APPARATUS**

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(73) Assignee: **Emerson Electric Co.**, St. Louis, MO (US)

(**) Term: **14 Years**

(21) Appl. No.: **29/304,553**

(22) Filed: **Mar. 4, 2008**

(51) **LOC (8) Cl.** **15-05**

(52) **U.S. Cl.** **D32/14**

(58) **Field of Classification Search** D32/1,
D32/14, 30, 25, 35; 134/167 C, 168 C; 15/104.05,
15/104.09, 104.62, 104.31–104.33; D8/68
See application file for complete search history.

(56) **References Cited**

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Jun. 28, 2008.*

Various drain maintenance hand tools (K-25 hand spinner, K-26 hand spinner, Kwik-Spin (tm), Power Spin (tm)) found at www.ridgid.com/tools/hand-spinners/en/index.htm.

Auto Spin(R) sink machine found at www.ridgid.com/tools/sink-machines.

K39 sink machine found at www.ridgid.com/tools/sink-machines.

K40 sink machine found at www.ridgid.com/tools/sink-machines.
Spin-Thru(tm) pipe cleaner found at www.drainbrain.com/new/hardware/spinthrough.html.

Super-Vee(tm) drain cleaner found at www.drainbrain.com/pro/1supervee.html.

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Primary Examiner—Louis S Zarfaz

Assistant Examiner—Kathleen M Sims

(57) **CLAIM**

The ornamental design for a hand held drain cleaning apparatus, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a first embodiment of a hand held drain cleaning apparatus showing our new design;

FIG. 2 is a left side view thereof;

FIG. 3 is a right side view thereof;

FIG. 4 is a top view thereof;

FIG. 5 is a bottom view thereof; and

FIG. 6 is a back view thereof, the opposite side being a mirror image;

FIG. 7 is a front perspective view of a second embodiment of a hand held drain cleaning apparatus;

FIG. 8 is a left side view thereof;

FIG. 9 is a right side view thereof;

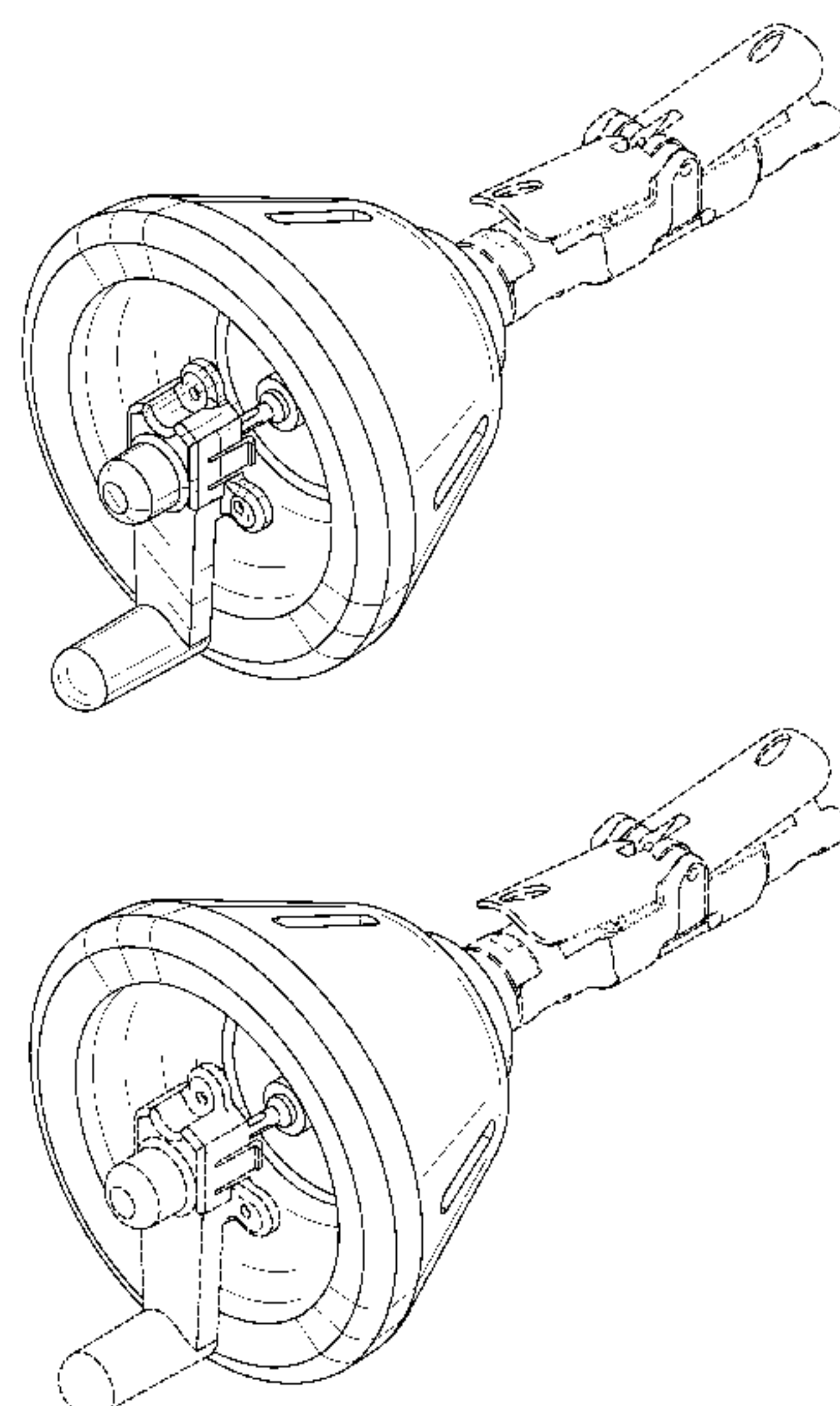
FIG. 10 is a top view thereof;

FIG. 11 is a bottom view thereof; and

FIG. 12 is a back view thereof, the opposite side being a mirror image.

The broken line showing of details in FIGS. 1 and 3–12 is included for the purpose of illustrating environment of the hand held drain cleaning apparatus and forms no part of the claimed design.

1 Claim, 8 Drawing Sheets



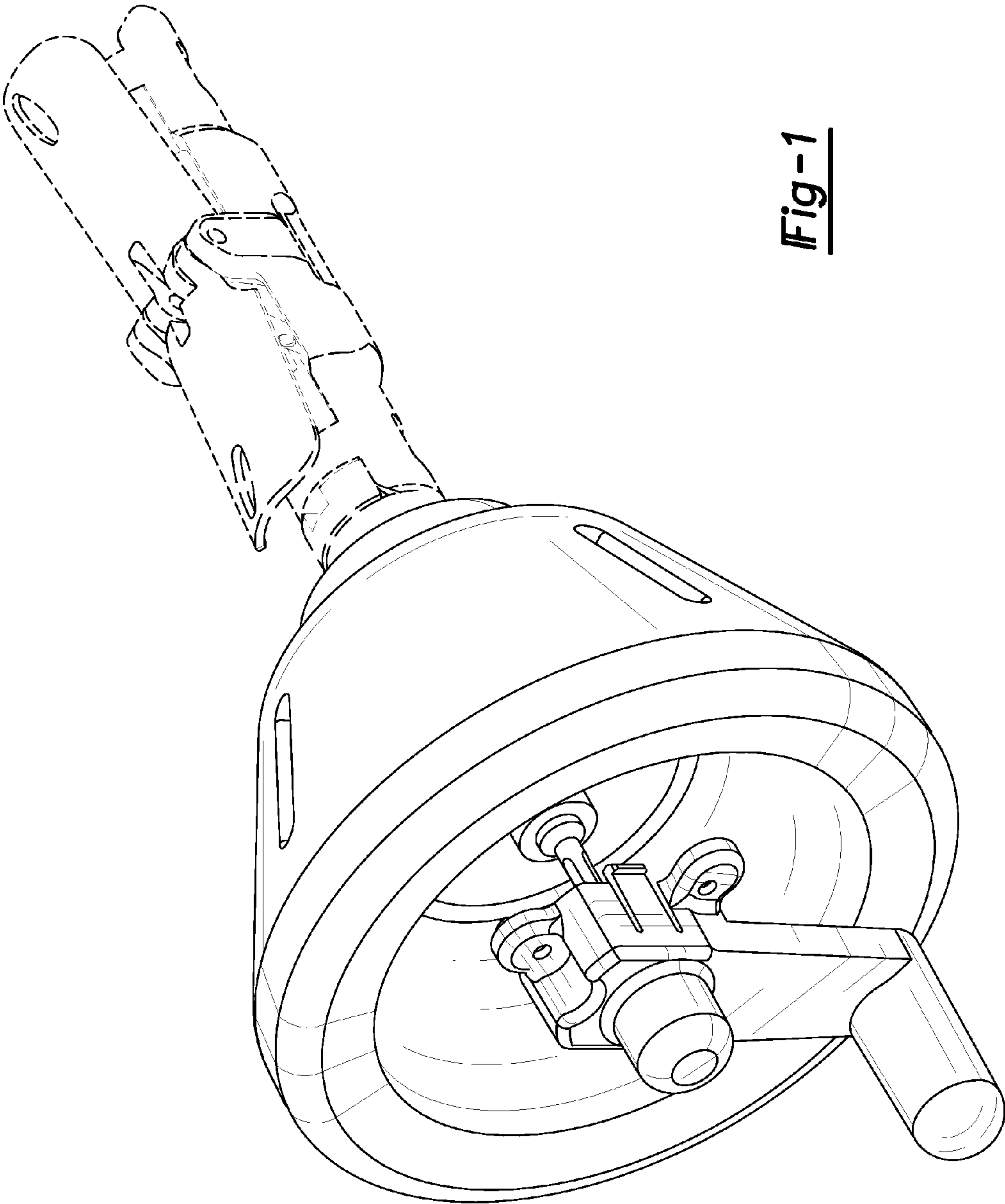


Fig-1

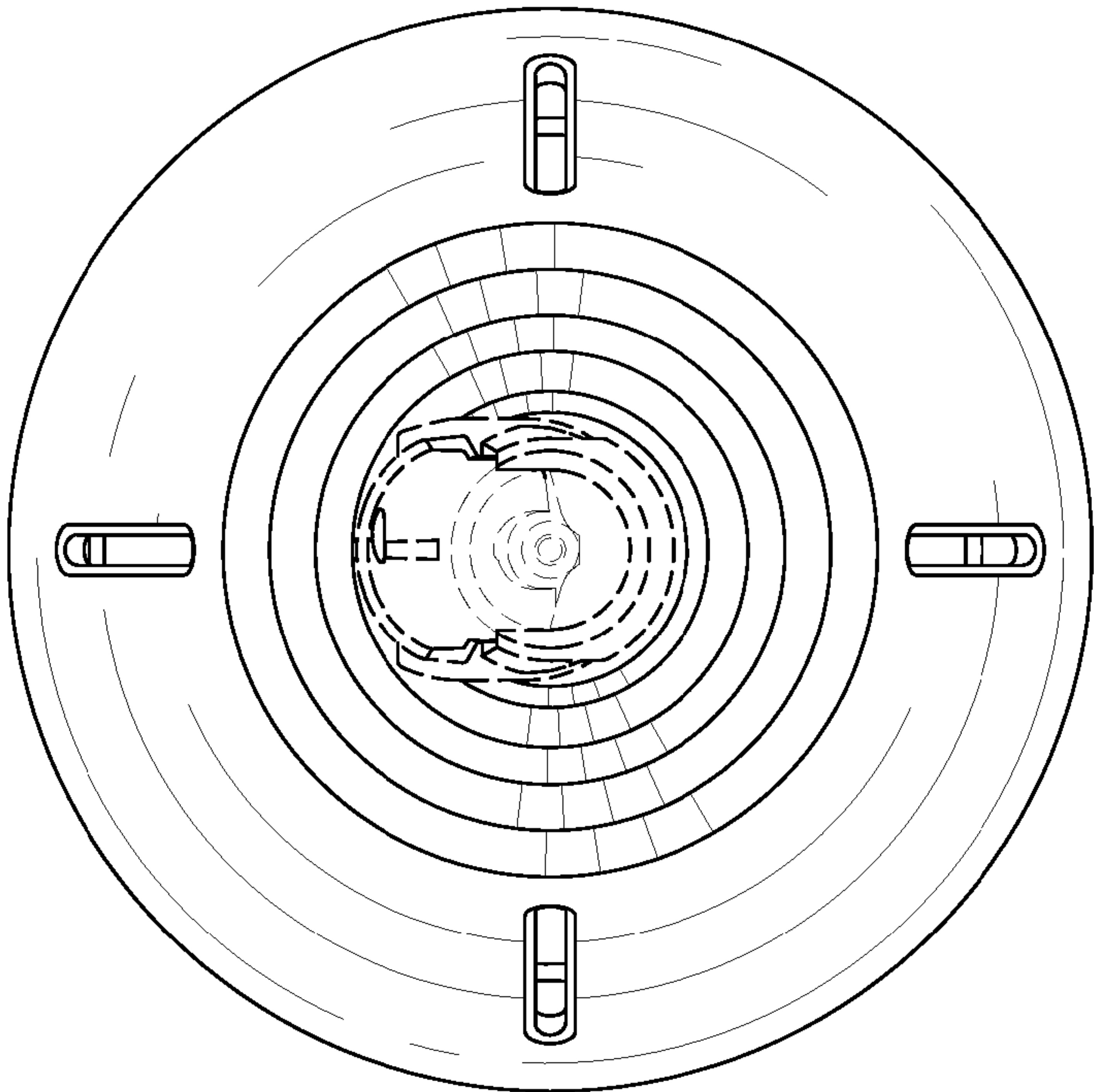


Fig-3

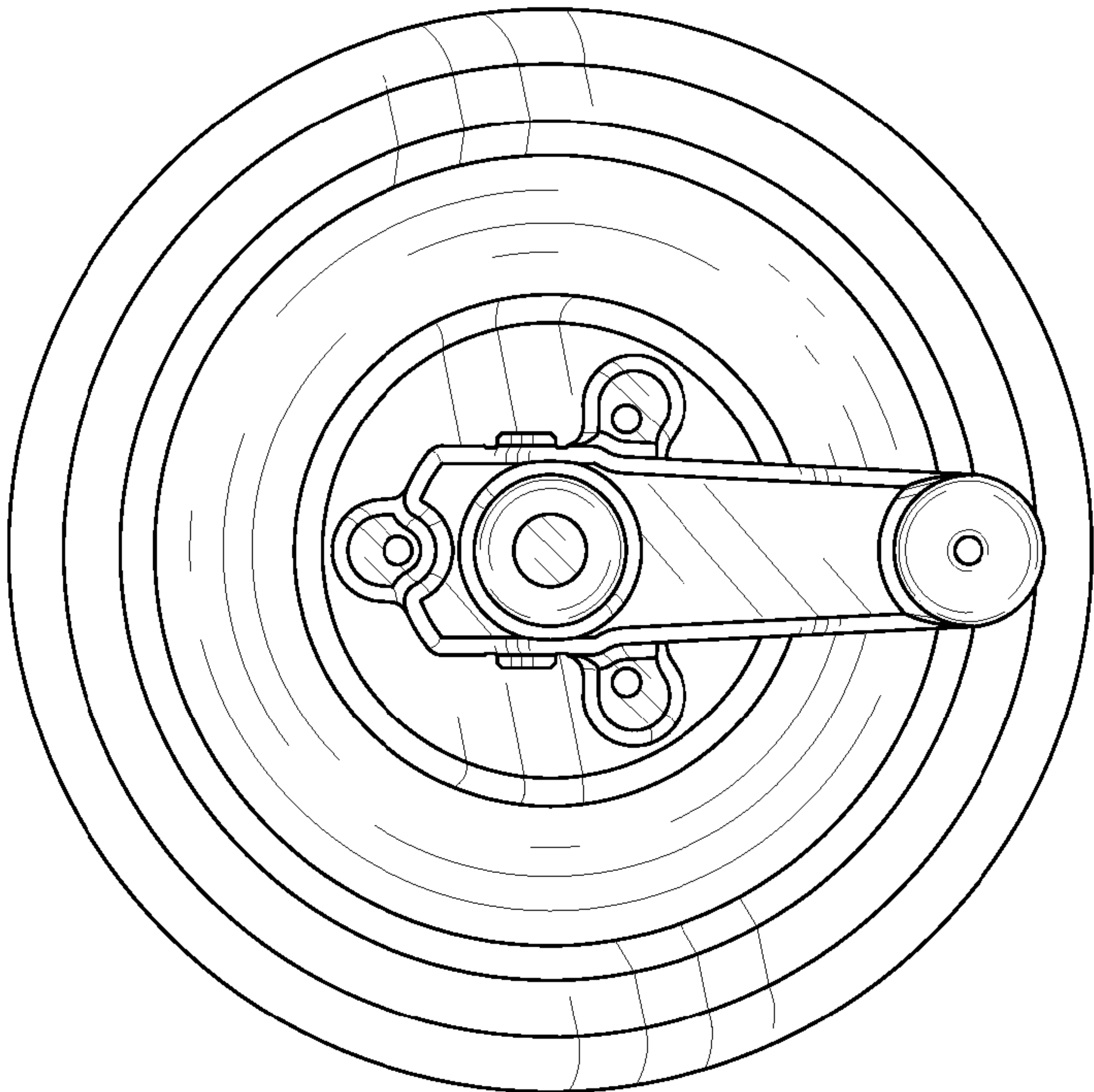


Fig-2

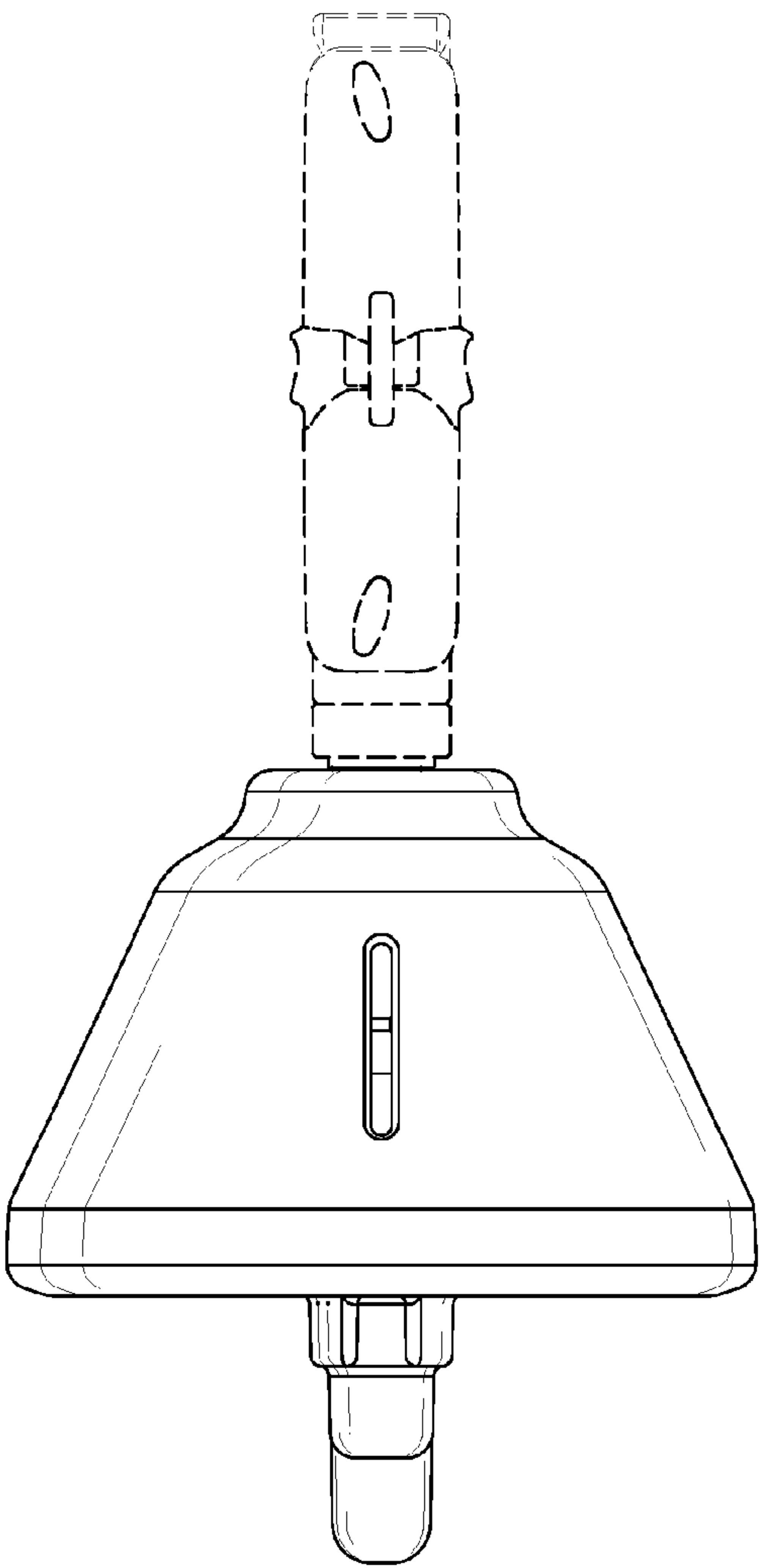


Fig-4

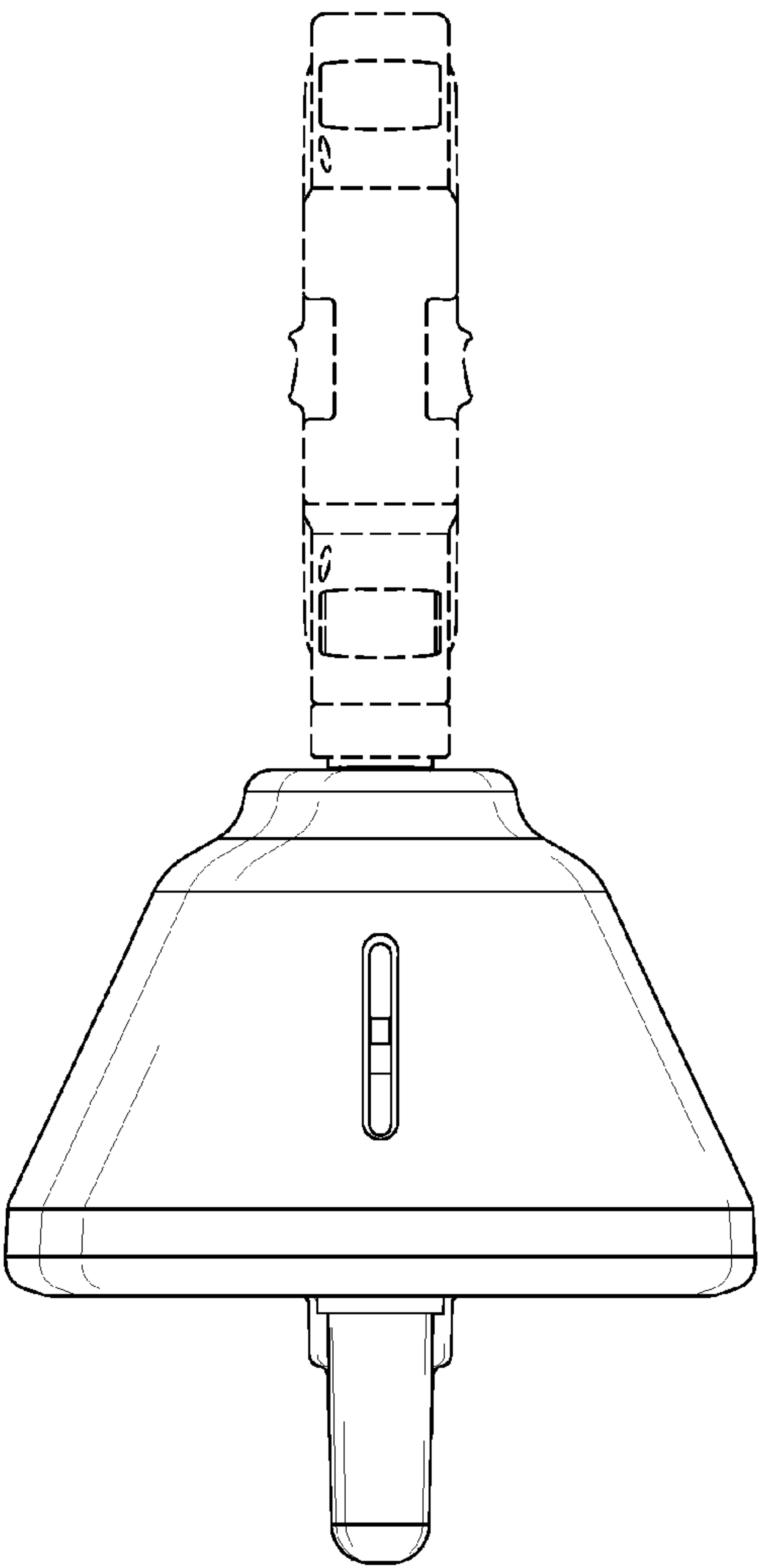


Fig-5

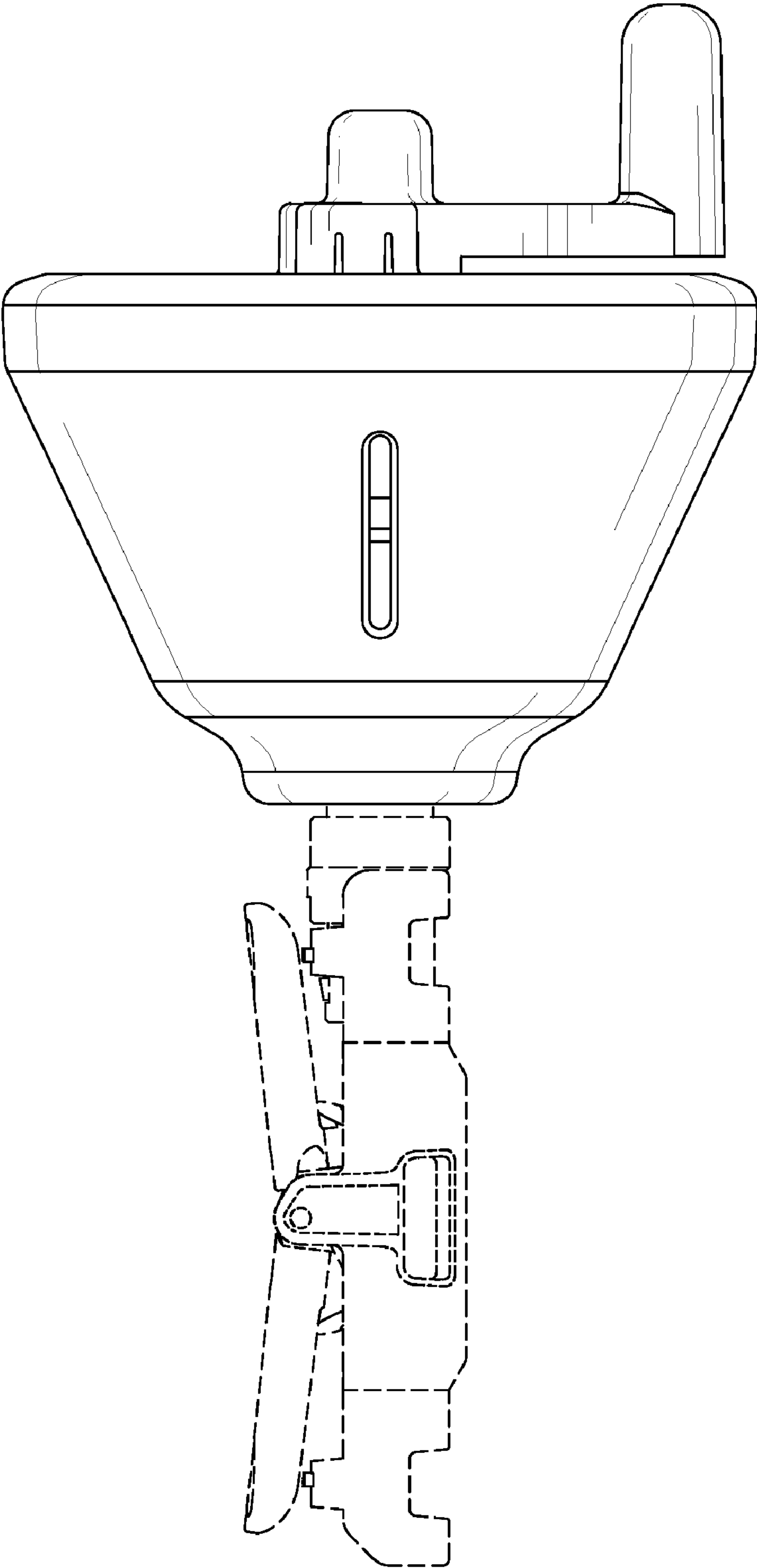


Fig-6

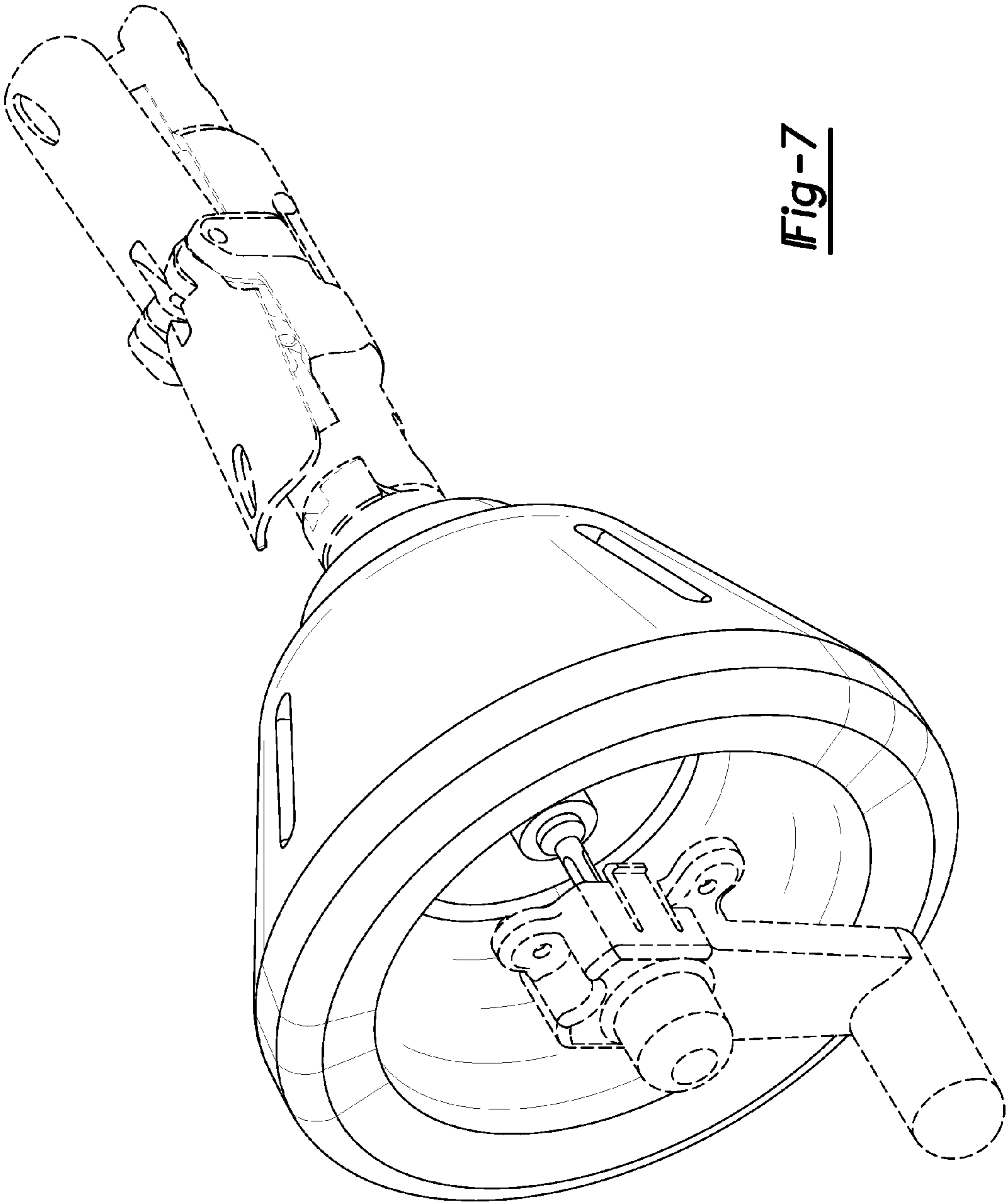


Fig-7

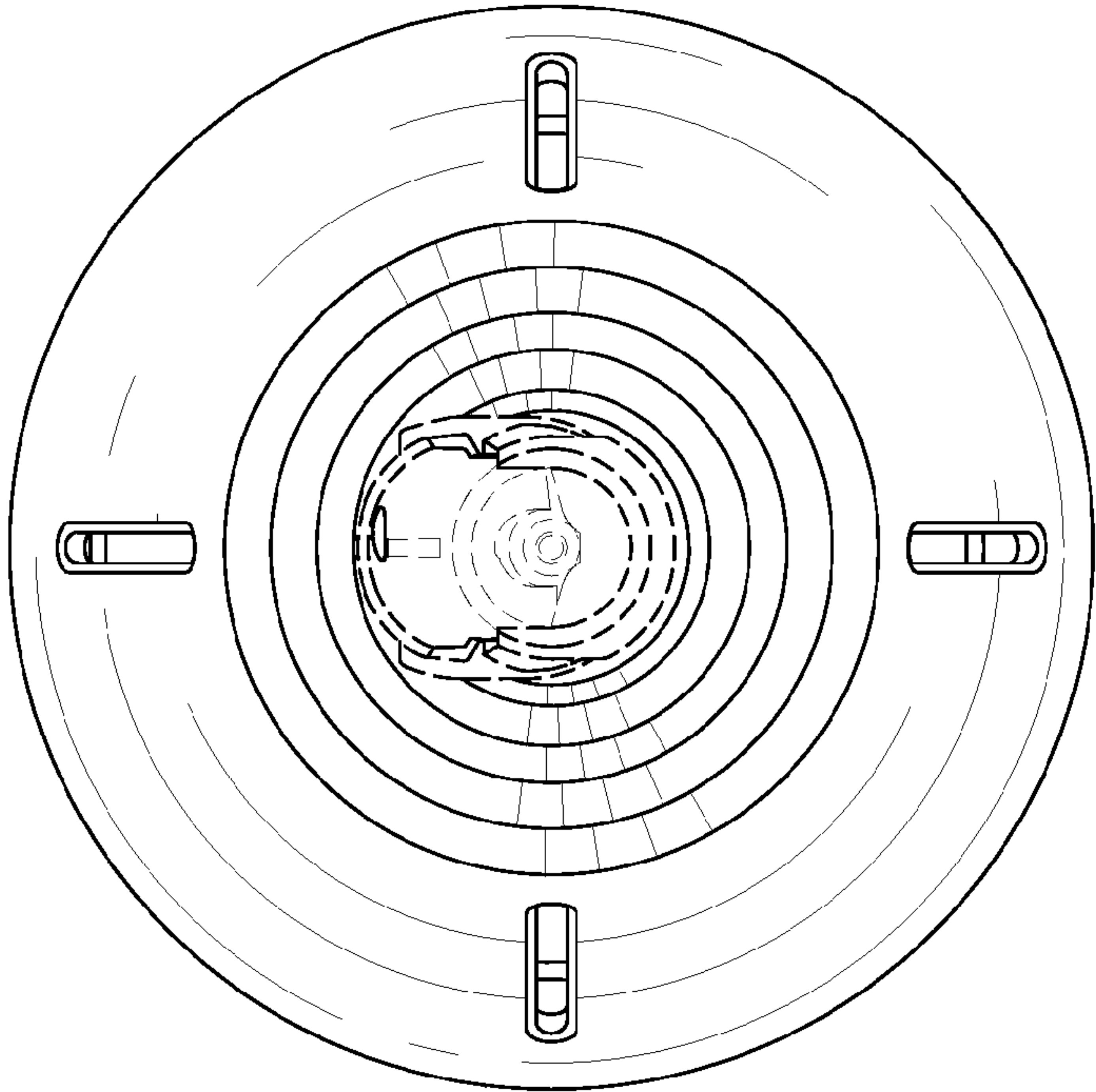


Fig-9

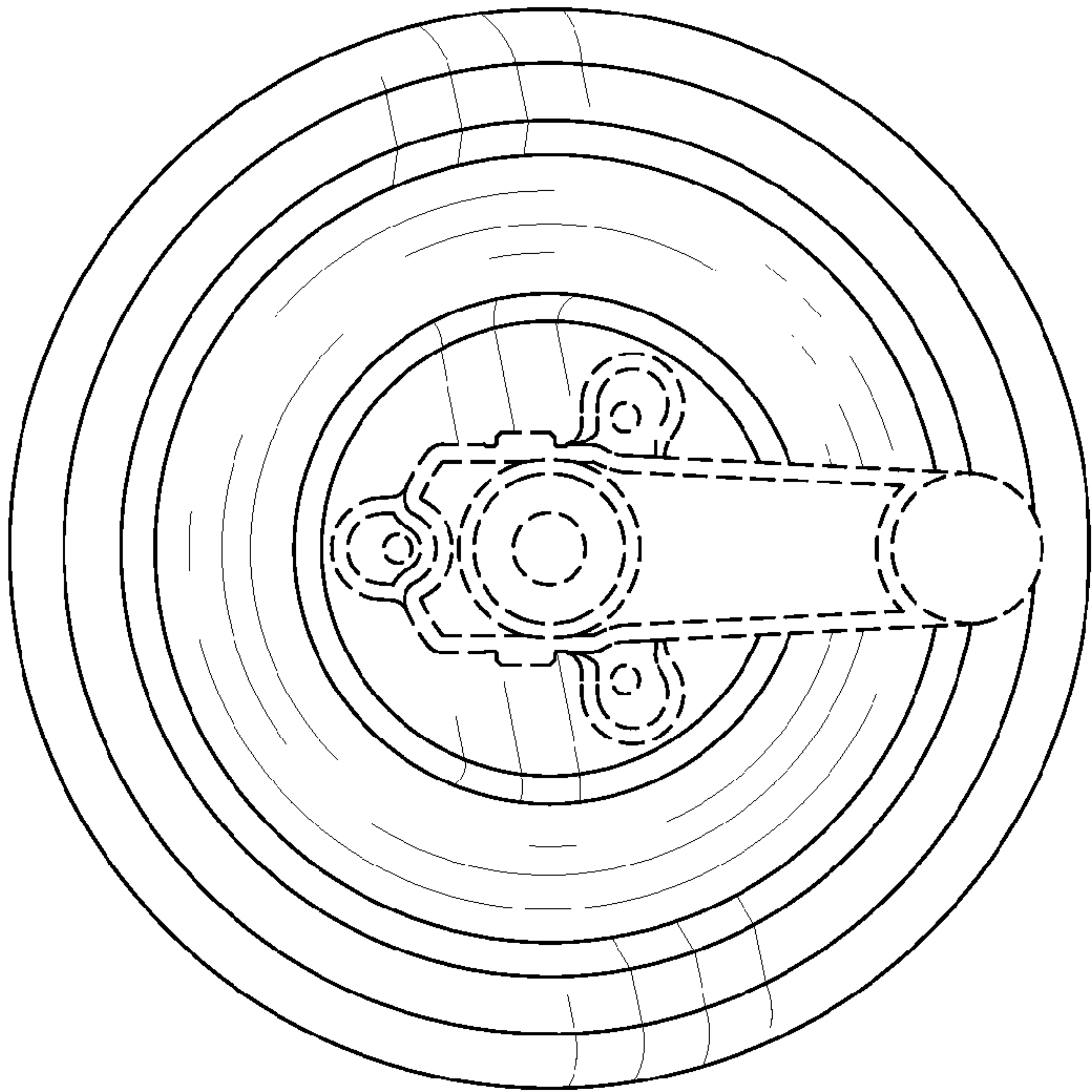


Fig-8

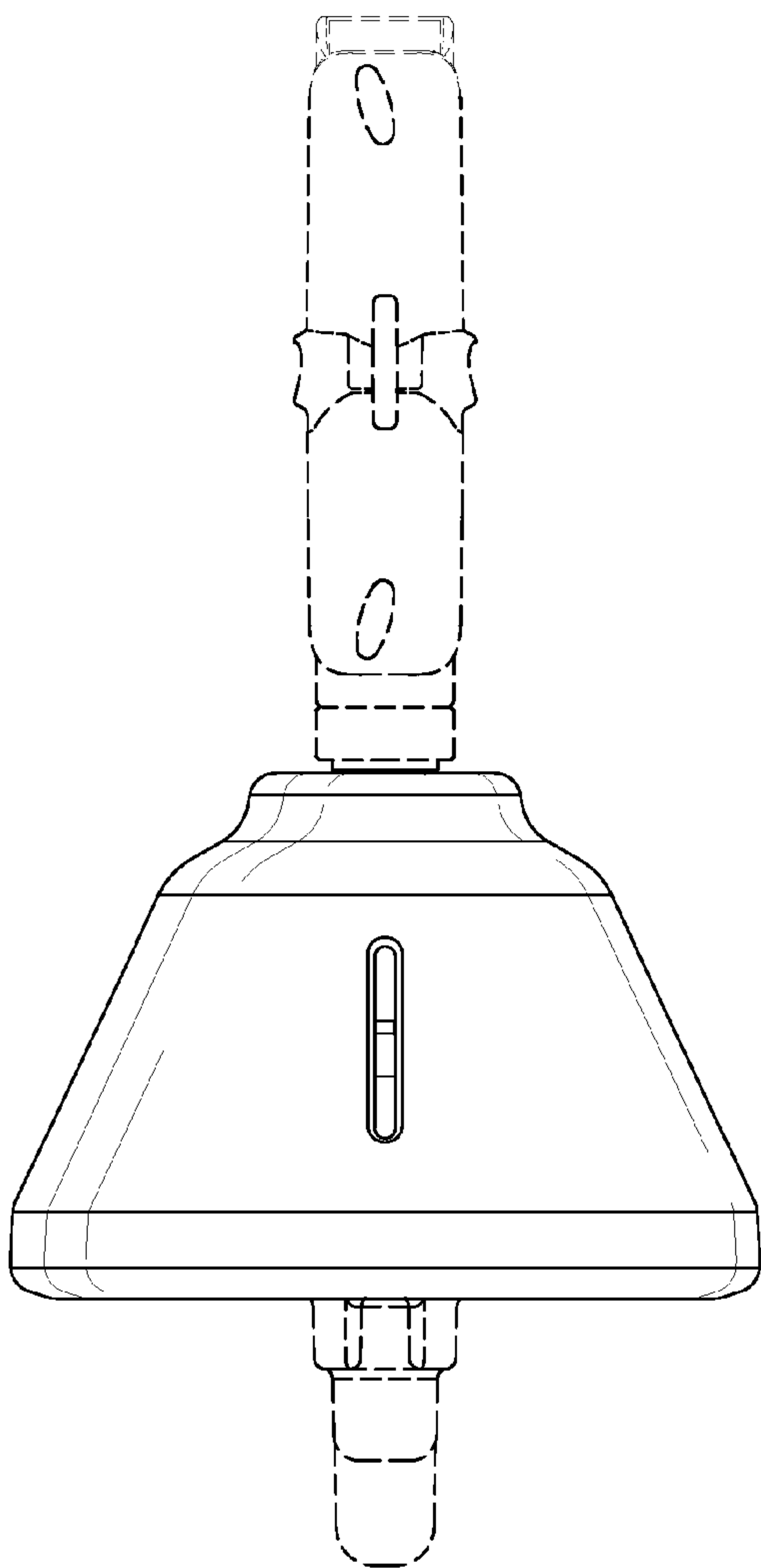


Fig-10

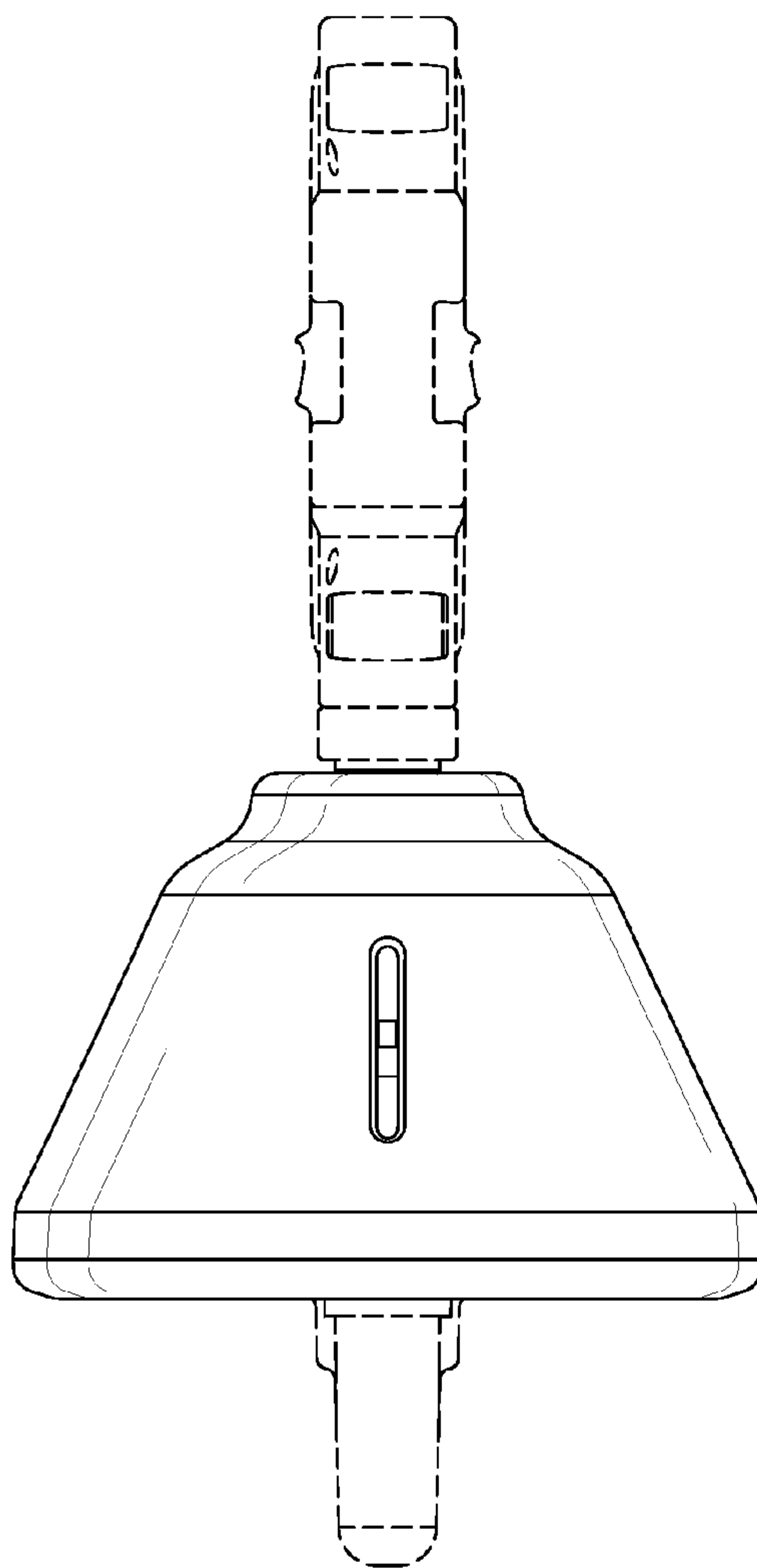


Fig-11

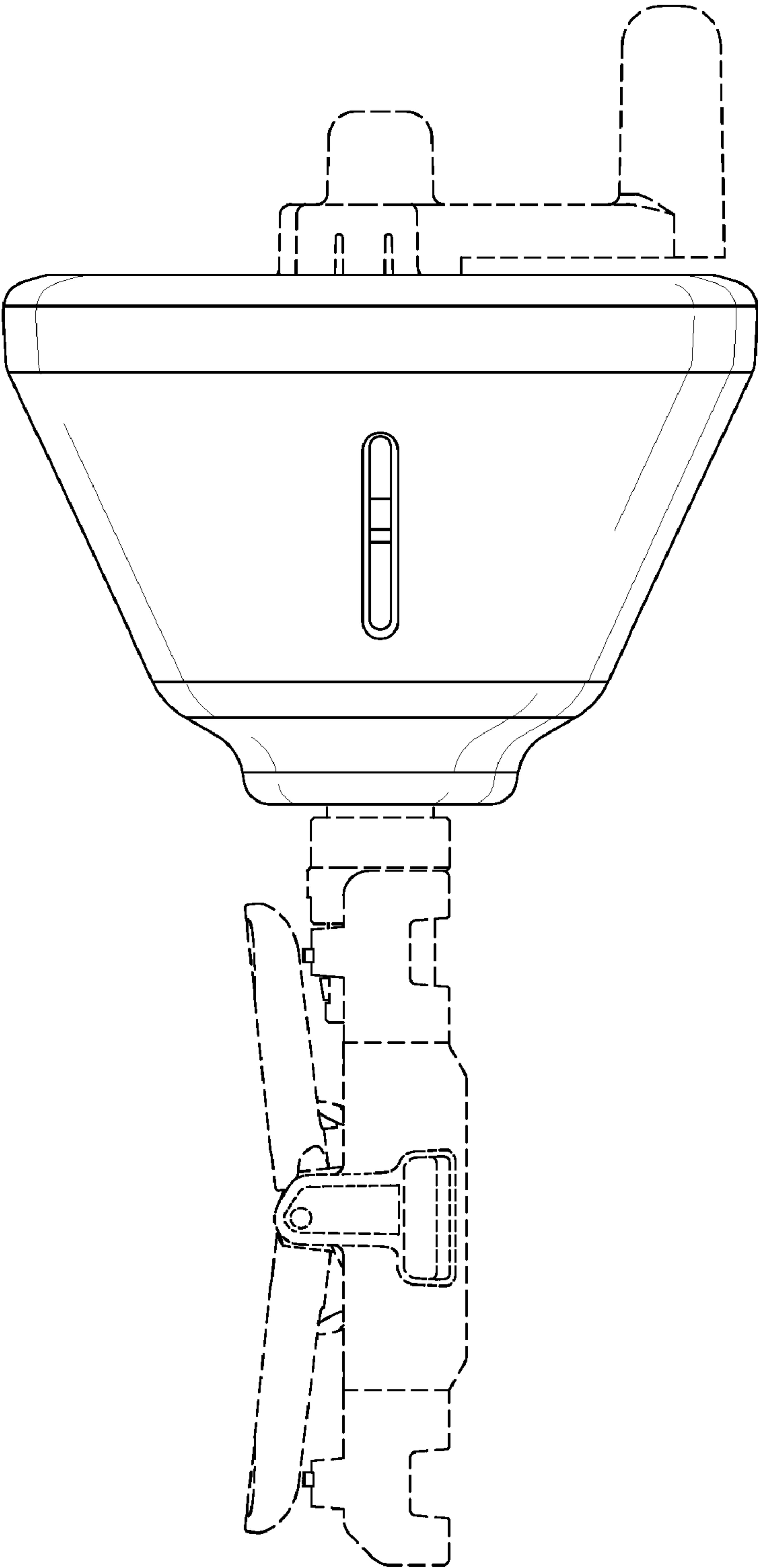


Fig-12