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(12) **United States Design Patent**
Hurrle

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(45) **Date of Patent: ** Jul. 14, 2015**

(54) **DROP-IN, THREADED BODY MOUNTING FOR AN INDUSTRIAL GRADE THUMB CONTROL JOYSTICK**

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(72) Inventor: **David Michael Hurrle**, San Diego, CA (US)

(73) Assignee: **APEM INC.**, Haverhill, MA (US)

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

(21) Appl. No.: **29/464,068**

(22) Filed: **Aug. 12, 2013**

(51) **LOC (10) Cl.** **08-08**

(52) **U.S. Cl.**
USPC **D8/387**

(58) **Field of Classification Search**
USPC D8/387, 397, 384, 399; 411/378, 393, 411/402–403, 6, 435, 437, 510, 427, 337, 411/429, 400; 403/180, 287, 295–296
See application file for complete search history.

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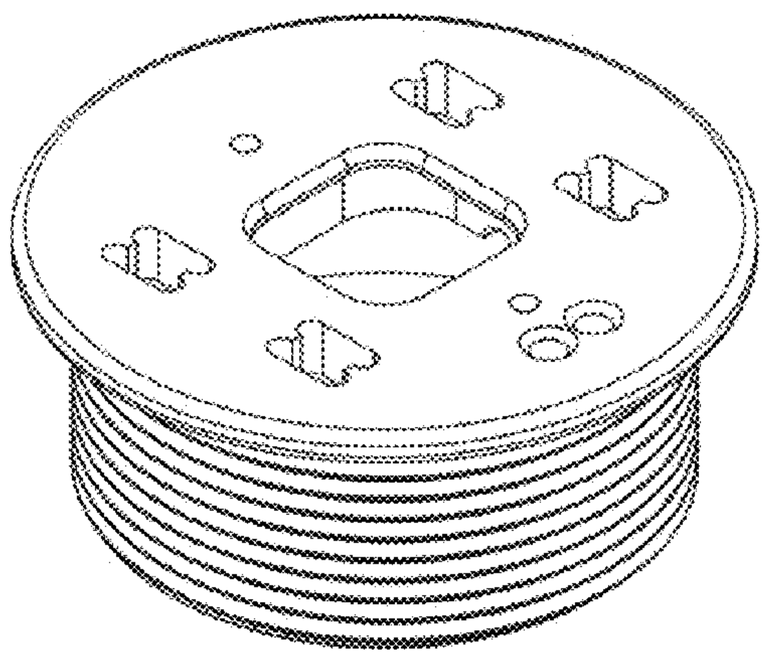
(57) **CLAIM**

The ornamental design for a drop-in, threaded body mounting for an industrial grade thumb control joystick, as shown and described.

DESCRIPTION

FIG. **1** is a perspective, front view of the drop-in, threaded body mounting for an industrial grade thumb control joystick;
FIG. **2** is a perspective, rear view of the drop-in, threaded body mounting for an industrial grade thumb control joystick;
FIG. **3** is a top view of the drop-in, threaded body mounting for an industrial grade thumb control joystick;
FIG. **4** is a front view of the drop-in, threaded body mounting for an industrial grade thumb control joystick;
FIG. **5** is a cross section through a centerline of the front view of the drop-in, threaded body mounting for an industrial grade thumb control joystick;
FIG. **6** is a back view of the drop-in, threaded body mounting for an industrial grade thumb control joystick;
FIG. **7** is a bottom view of the drop-in, threaded body mounting for an industrial grade thumb control joystick;
FIG. **8** is a side view of the drop-in, threaded body mounting for an industrial grade thumb control joystick, the opposite side being a mirror image thereof;
FIG. **9** is a perspective, front view of the drop-in, threaded body mounting for an industrial grade thumb control joystick illustrated as part of an industrial grade inductive thumb control joystick assembly having a plastic actuator top;
FIG. **10** is a perspective, rear view of the drop-in, threaded body mounting for an industrial grade thumb control joystick illustrated as part of the industrial grade inductive thumb control joystick assembly having a plastic actuator top;
FIG. **11** is a front view of the drop-in, threaded body mounting for an industrial grade thumb control joystick illustrated as part of the industrial grade inductive thumb control joystick assembly having a plastic actuator top;
FIG. **12** is a back view of the drop-in, threaded body mounting for an industrial grade thumb control joystick illustrated as part of the industrial grade inductive thumb control joystick assembly having a plastic actuator top;
FIG. **13** is a bottom view of the drop-in, threaded body mounting for an industrial grade thumb control joystick illustrated as part of the industrial grade inductive thumb control joystick assembly having a plastic actuator top;
FIG. **14** is a side view of the drop-in, threaded body mounting for an industrial grade thumb control joystick illustrated as part of the industrial grade inductive thumb control joystick



assembly having a plastic actuator top, the opposite side being a mirror image of thereof;

FIG. **15** is a side view of the drop-in, threaded body mounting for an industrial grade thumb control joystick illustrated as part of the industrial grade inductive thumb control joystick assembly having a plastic actuator top including a mock panel and mounting hardware;

FIG. **16** is a perspective, front view of the drop-in, threaded body mounting for an industrial grade thumb control joystick illustrated as part of an industrial grade inductive thumb control joystick assembly having a silicone rubber push button actuator top;

FIG. **17** is a perspective, rear view of the drop-in, threaded body mounting for an industrial grade thumb control joystick illustrated as part of the industrial grade inductive thumb control joystick assembly having a silicone rubber push button actuator top;

FIG. **18** is a front view of the drop-in, threaded body mounting for an industrial grade thumb control joystick illustrated as part of the industrial grade inductive thumb control joystick assembly having a silicone rubber push button actuator top;

FIG. **19** is a back view of the drop-in, threaded body mounting for an industrial grade thumb control joystick illustrated as part of the industrial grade inductive thumb control joystick assembly having a silicone rubber push button actuator top;

FIG. **20** is a bottom view of the drop-in, threaded body mounting for an industrial grade thumb control joystick illustrated as part of the industrial grade inductive thumb control joystick assembly having a silicone rubber push button actuator top; and,

FIG. **21** is a side view of the drop-in, threaded body mounting for an industrial grade thumb control joystick illustrated as part of the industrial grade inductive thumb control joystick assembly having a silicone rubber push button actuator top, the opposite side being a mirror image thereof.

The broken lines represent environment and form no part of the claimed design.

1 Claim, 21 Drawing Sheets

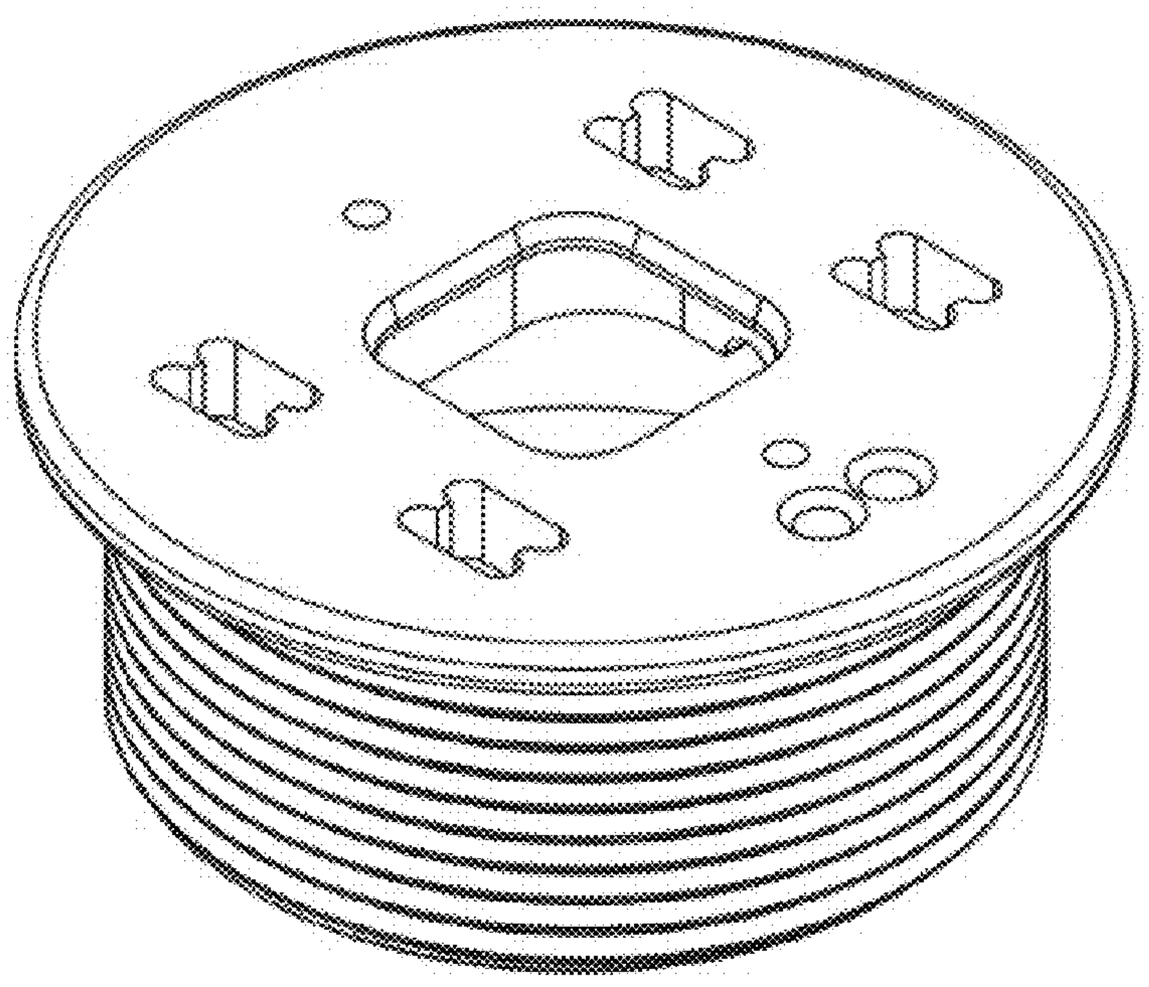


FIG. 1

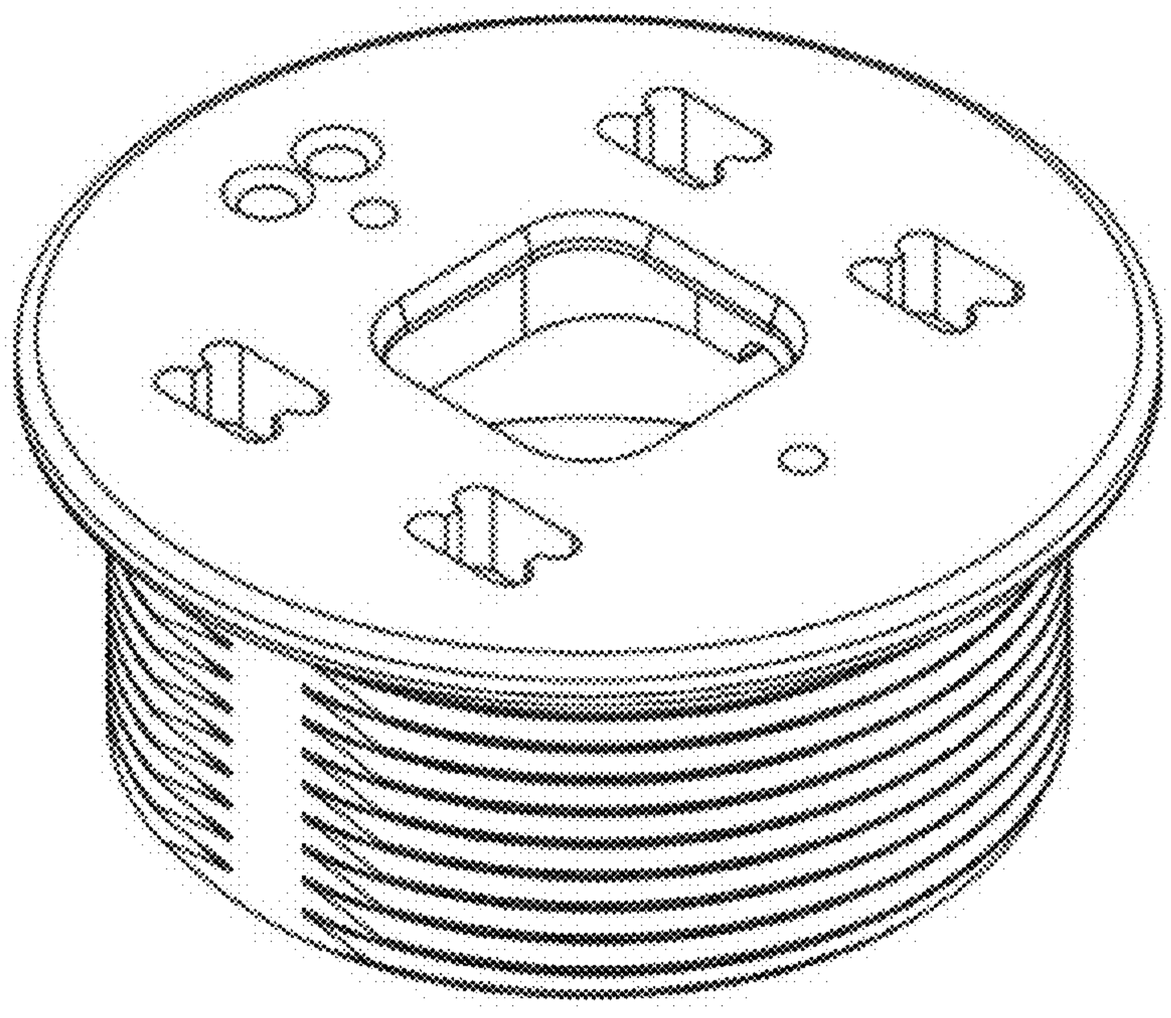


FIG. 2

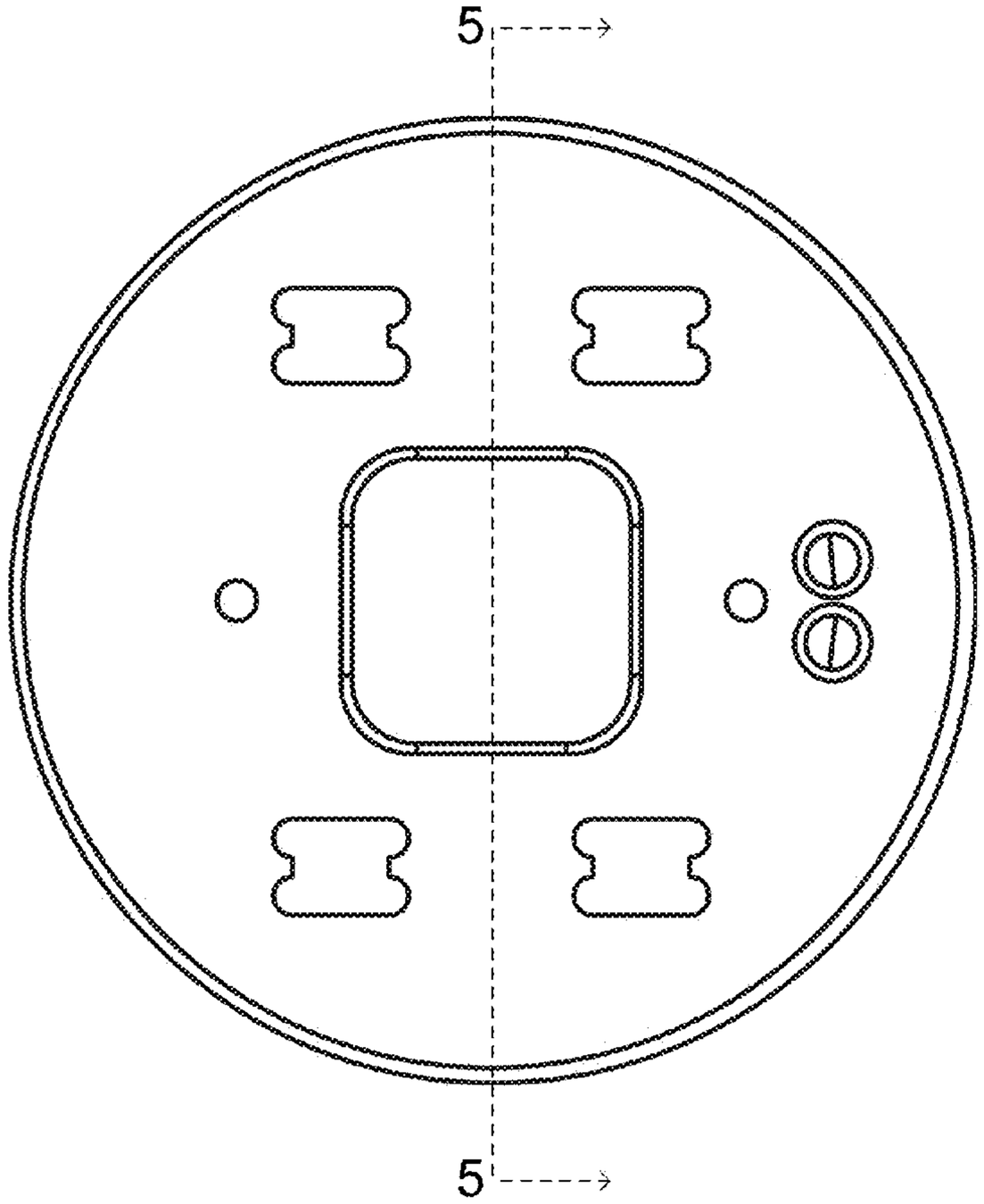


FIG. 3

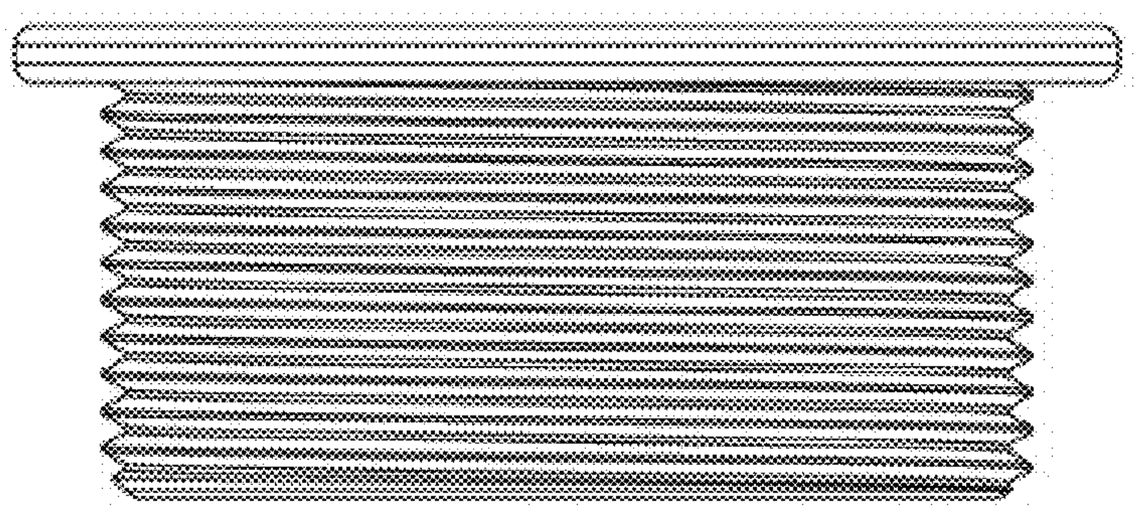


FIG. 4

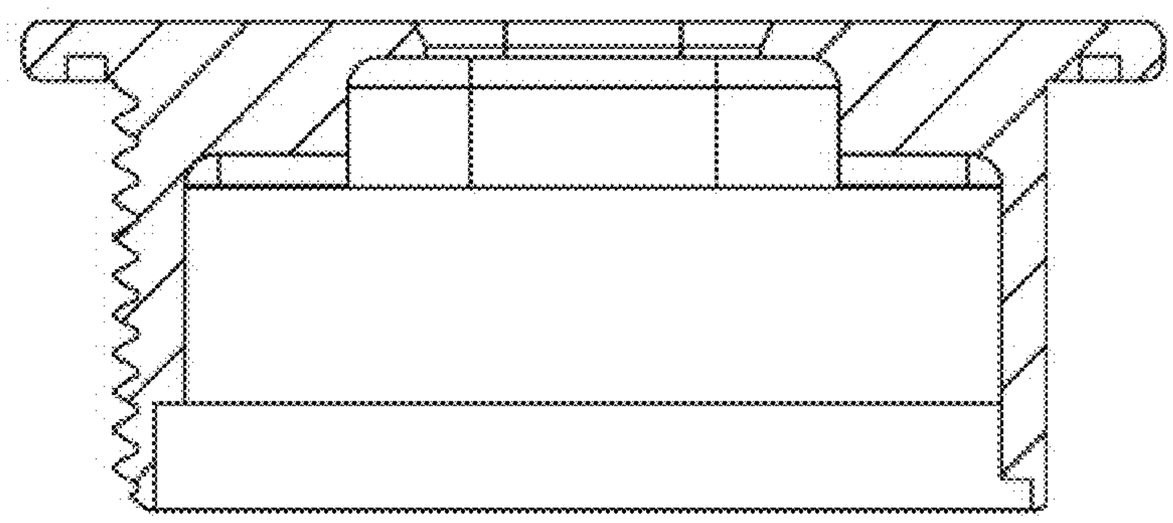


FIG. 5

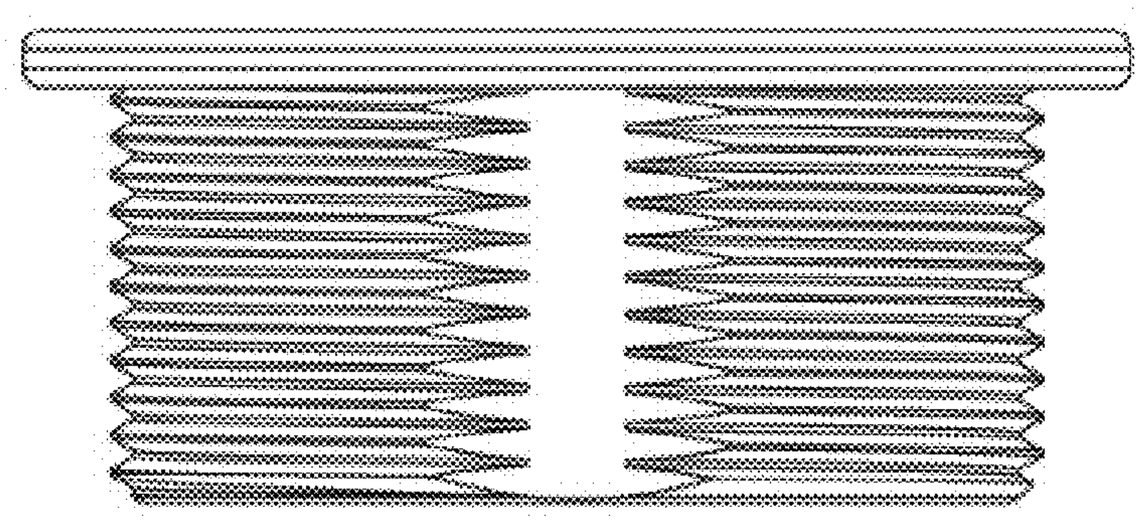


FIG. 6

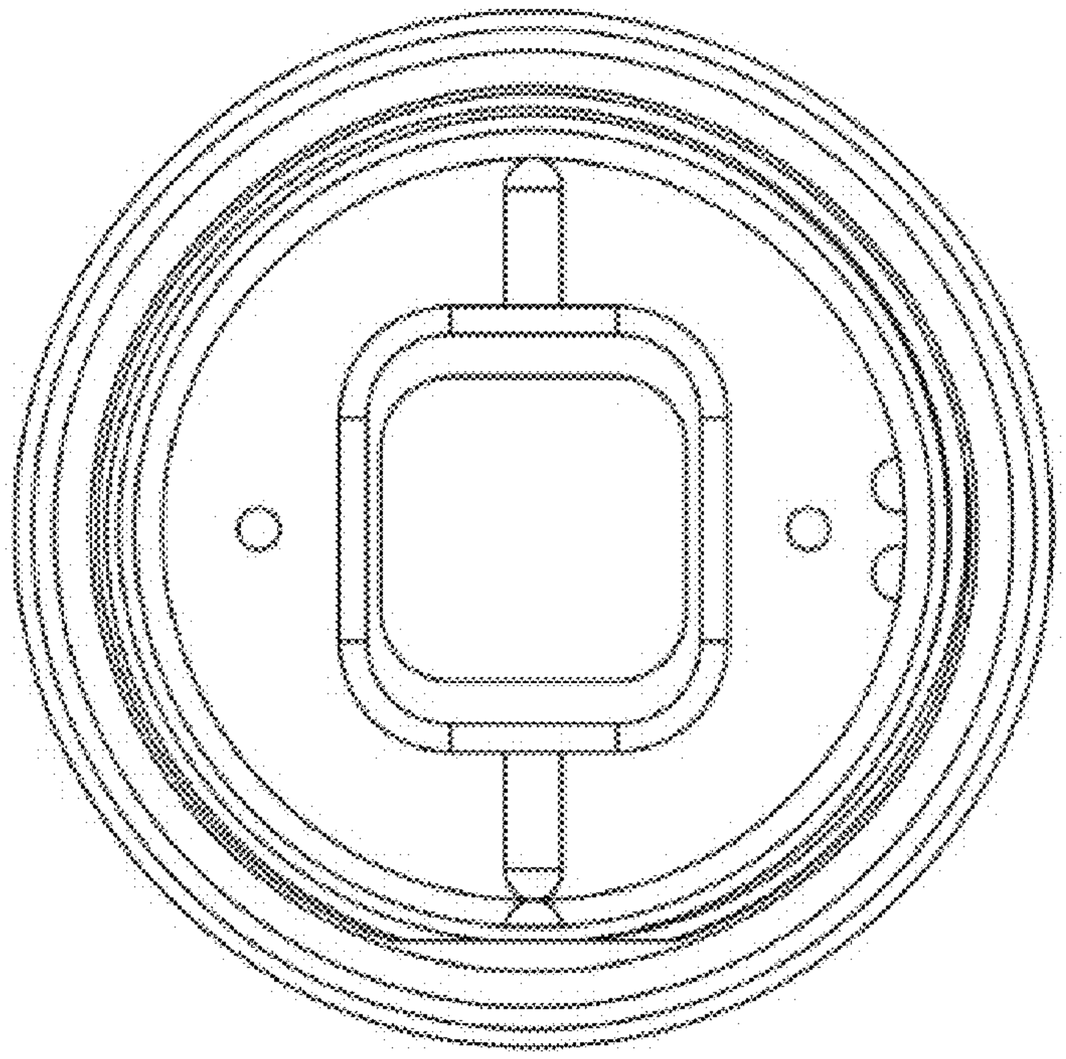


FIG. 7

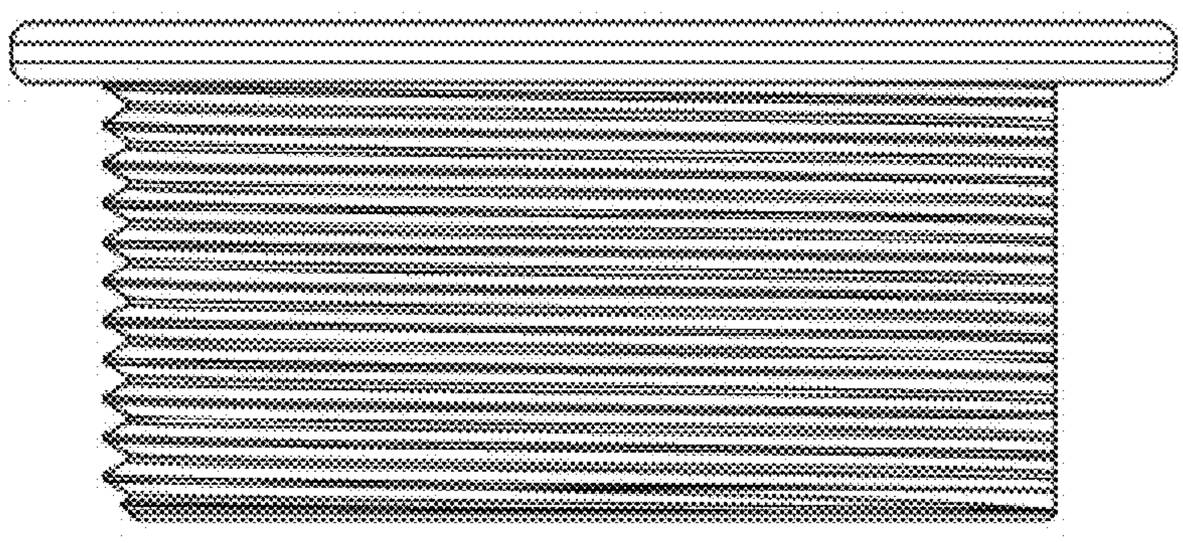


FIG. 8

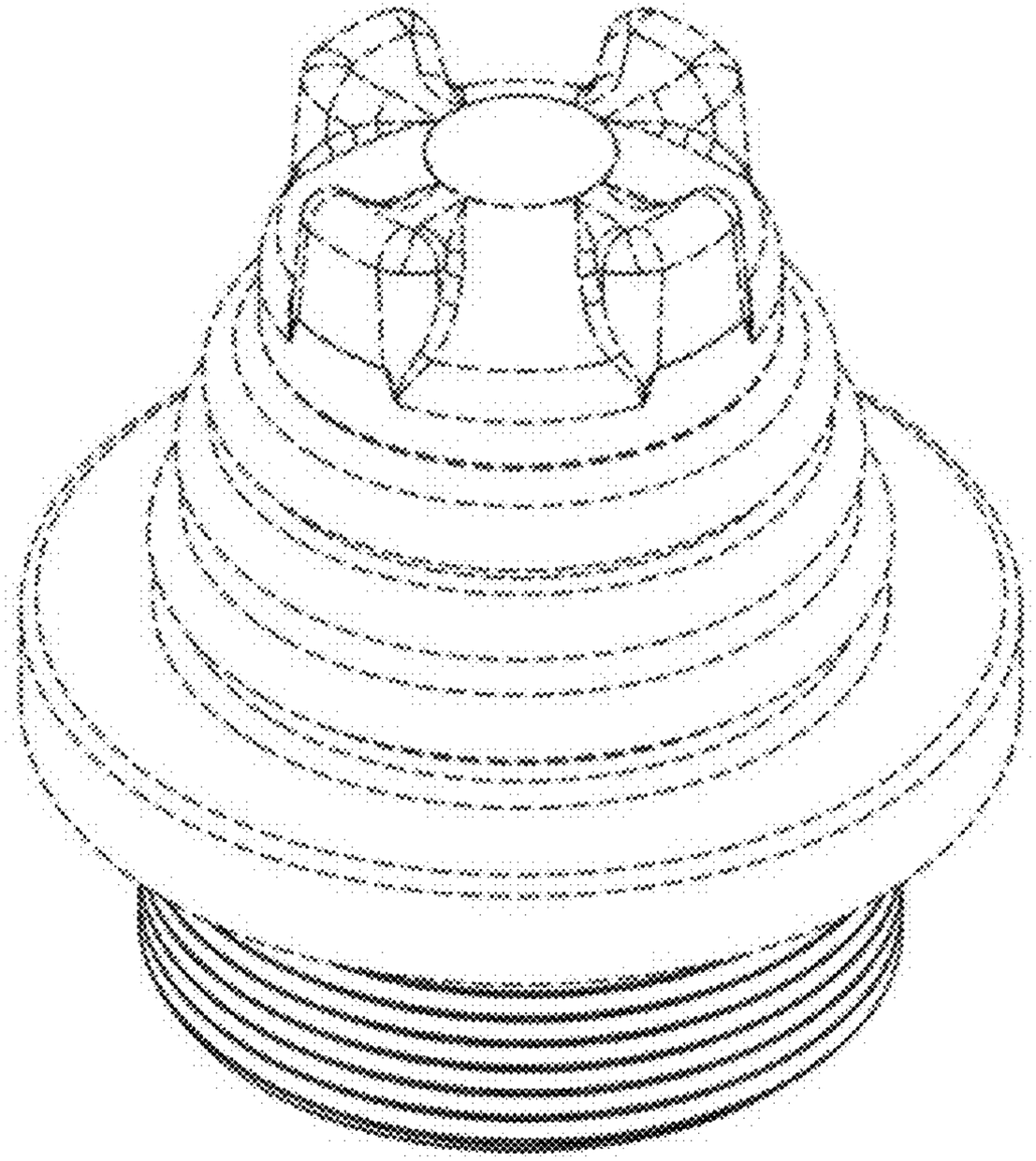


FIG. 9

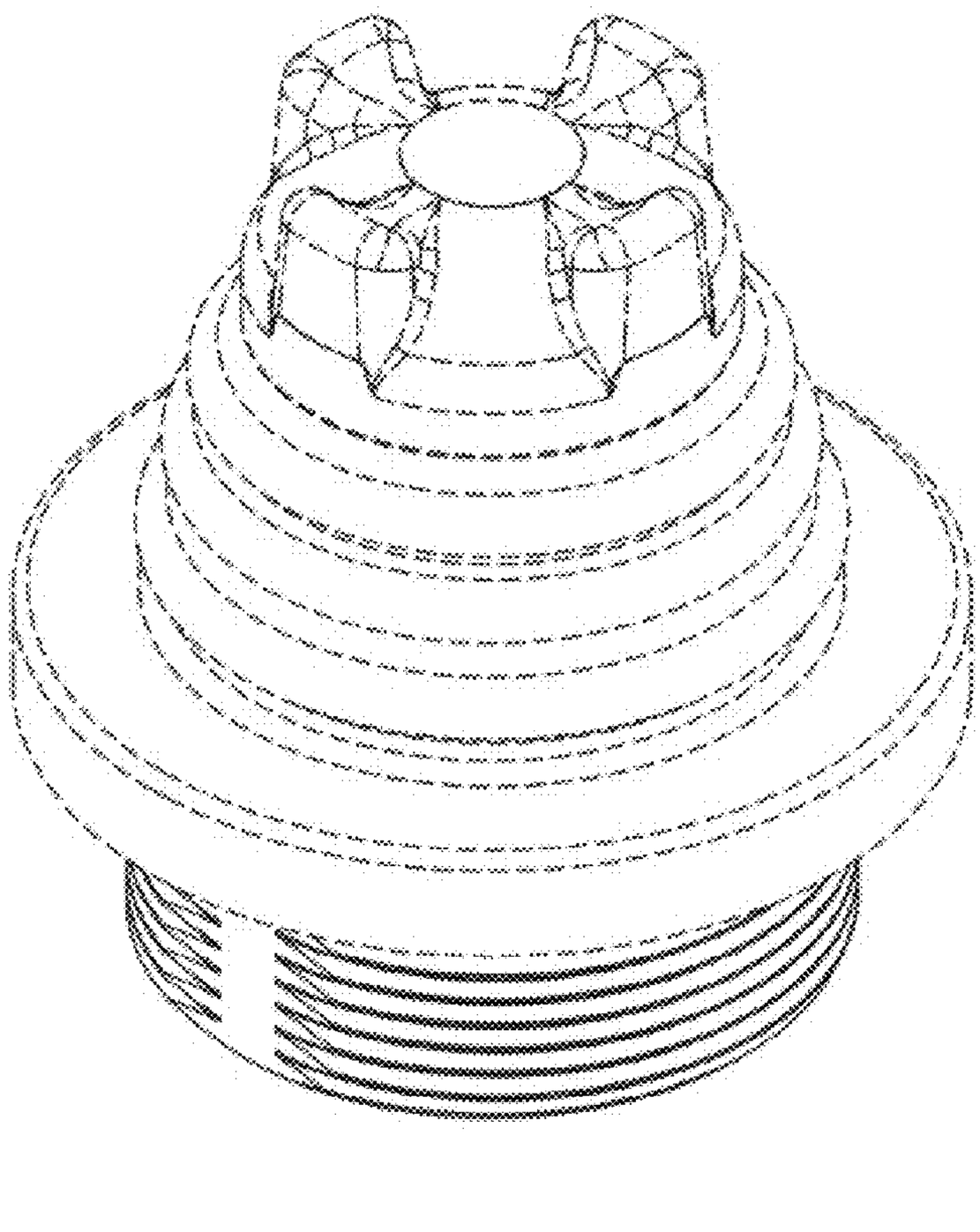


FIG. 10

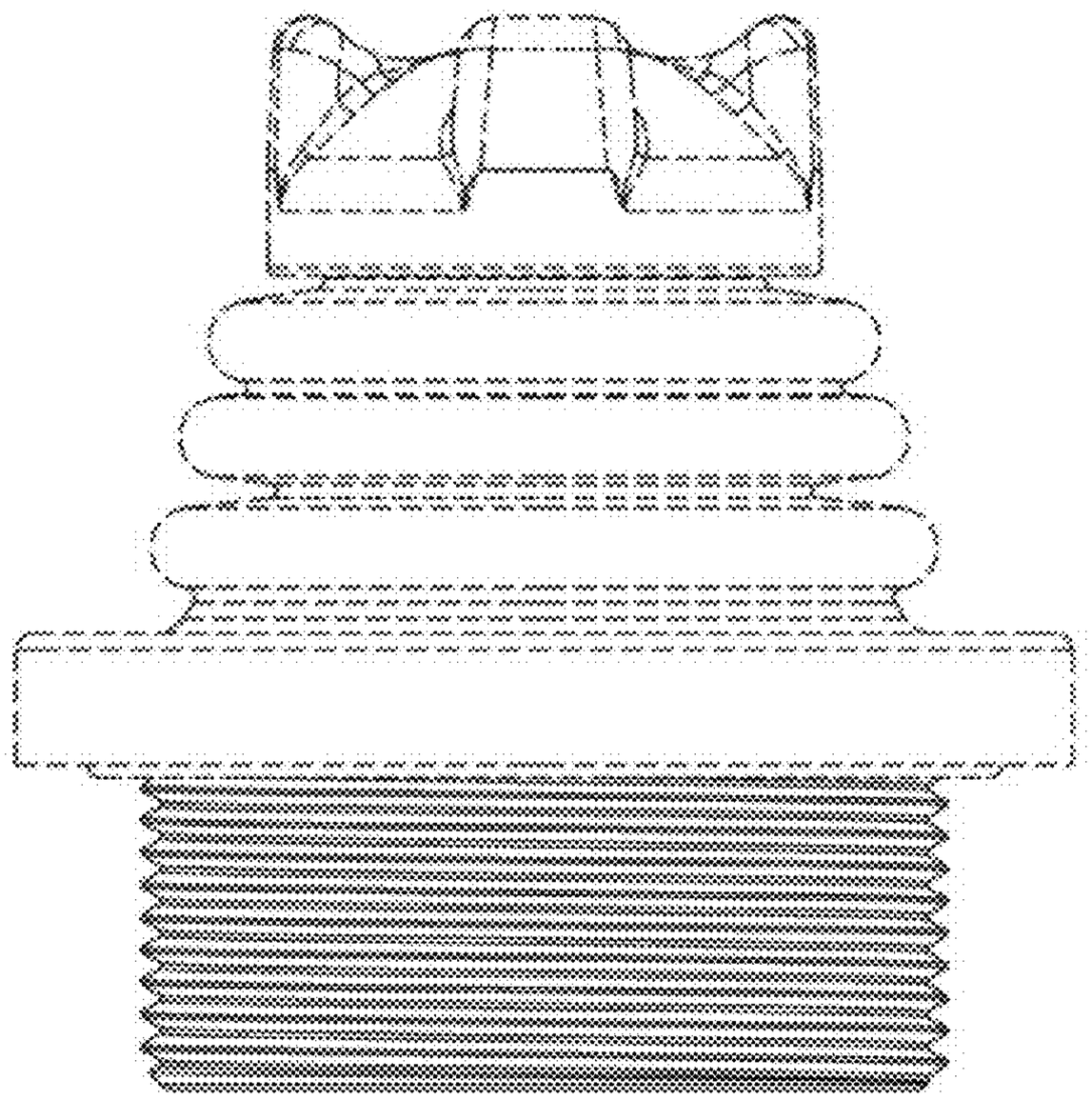


FIG. 11

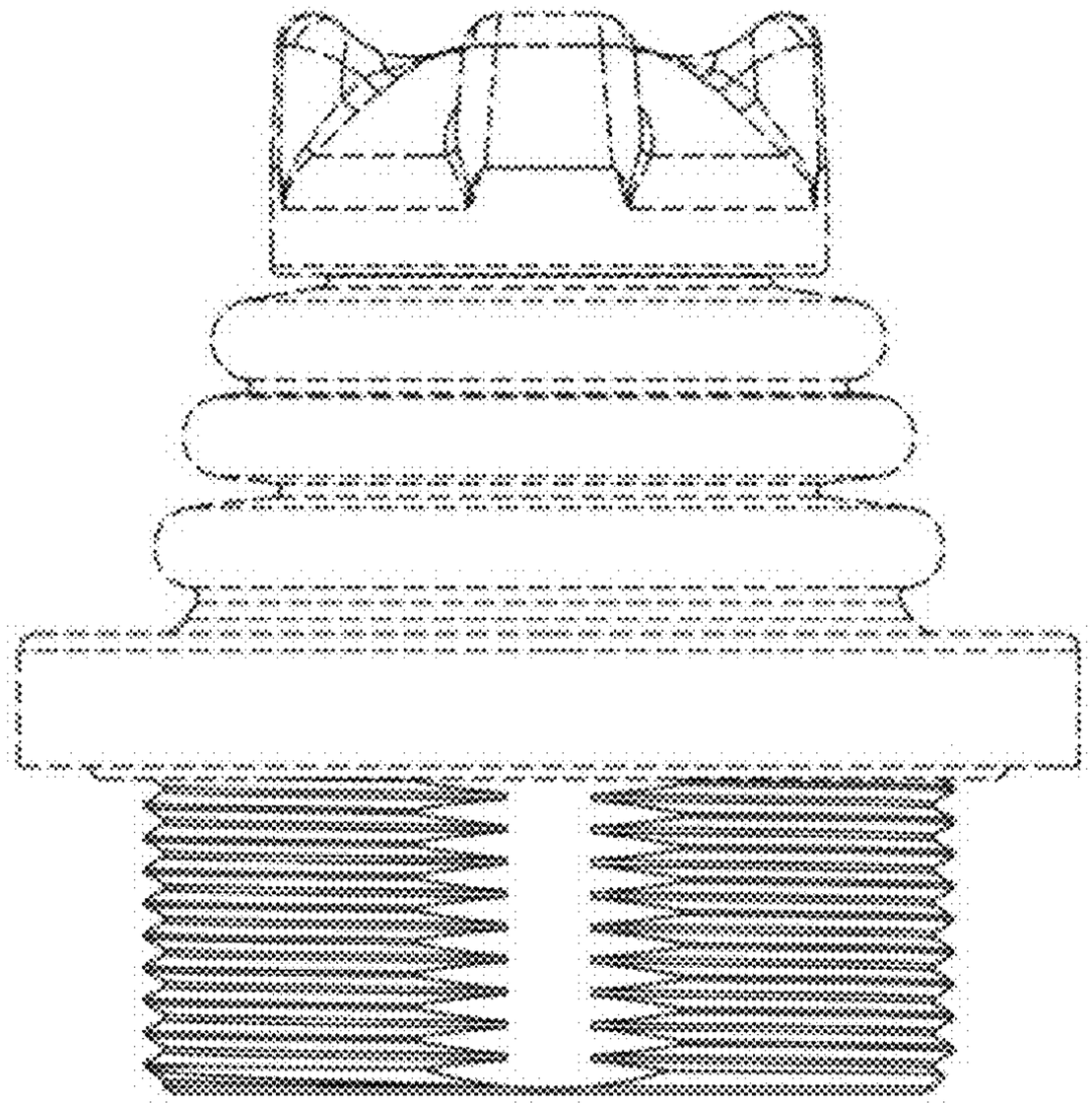


FIG. 12

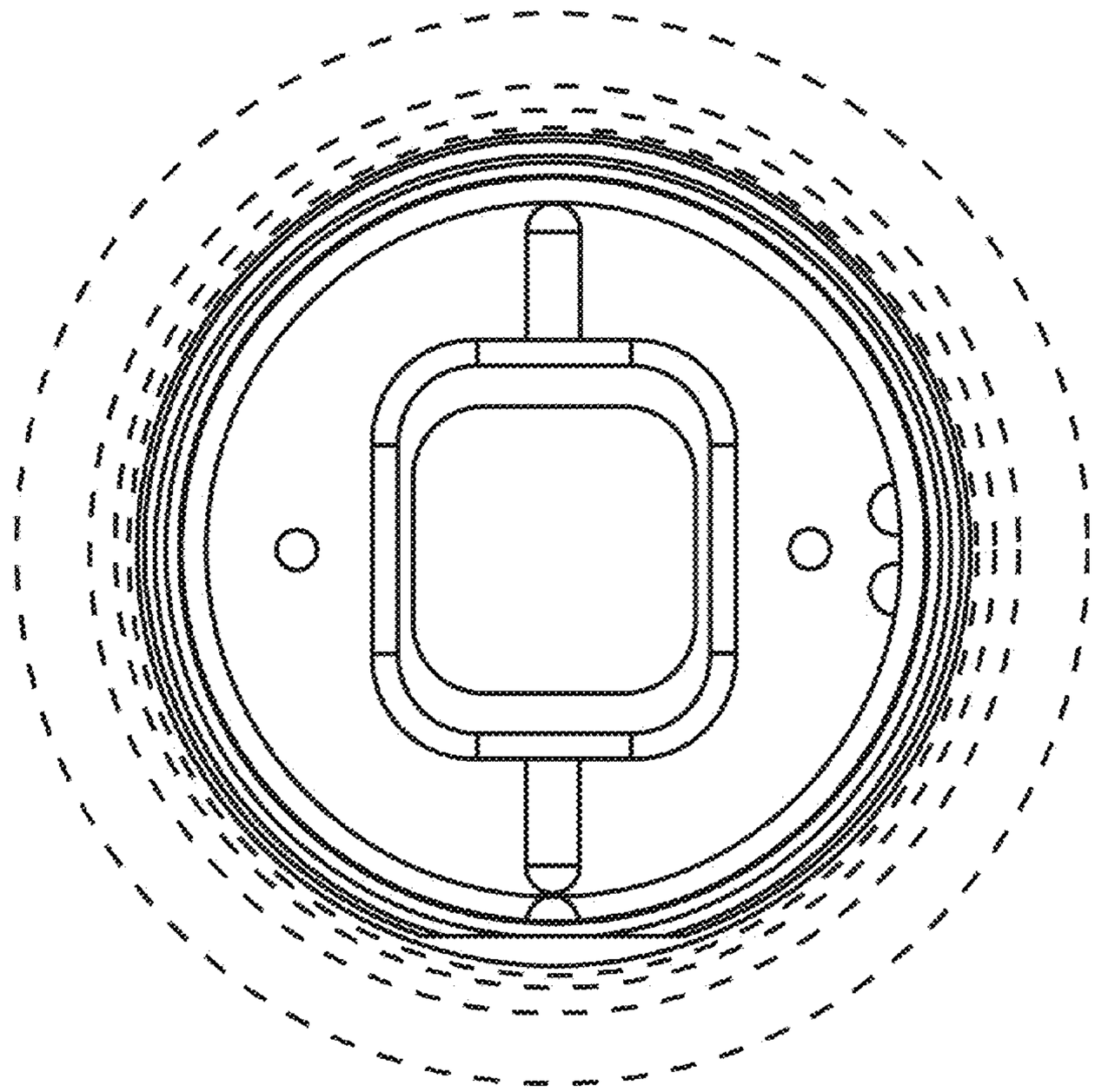


FIG. 13

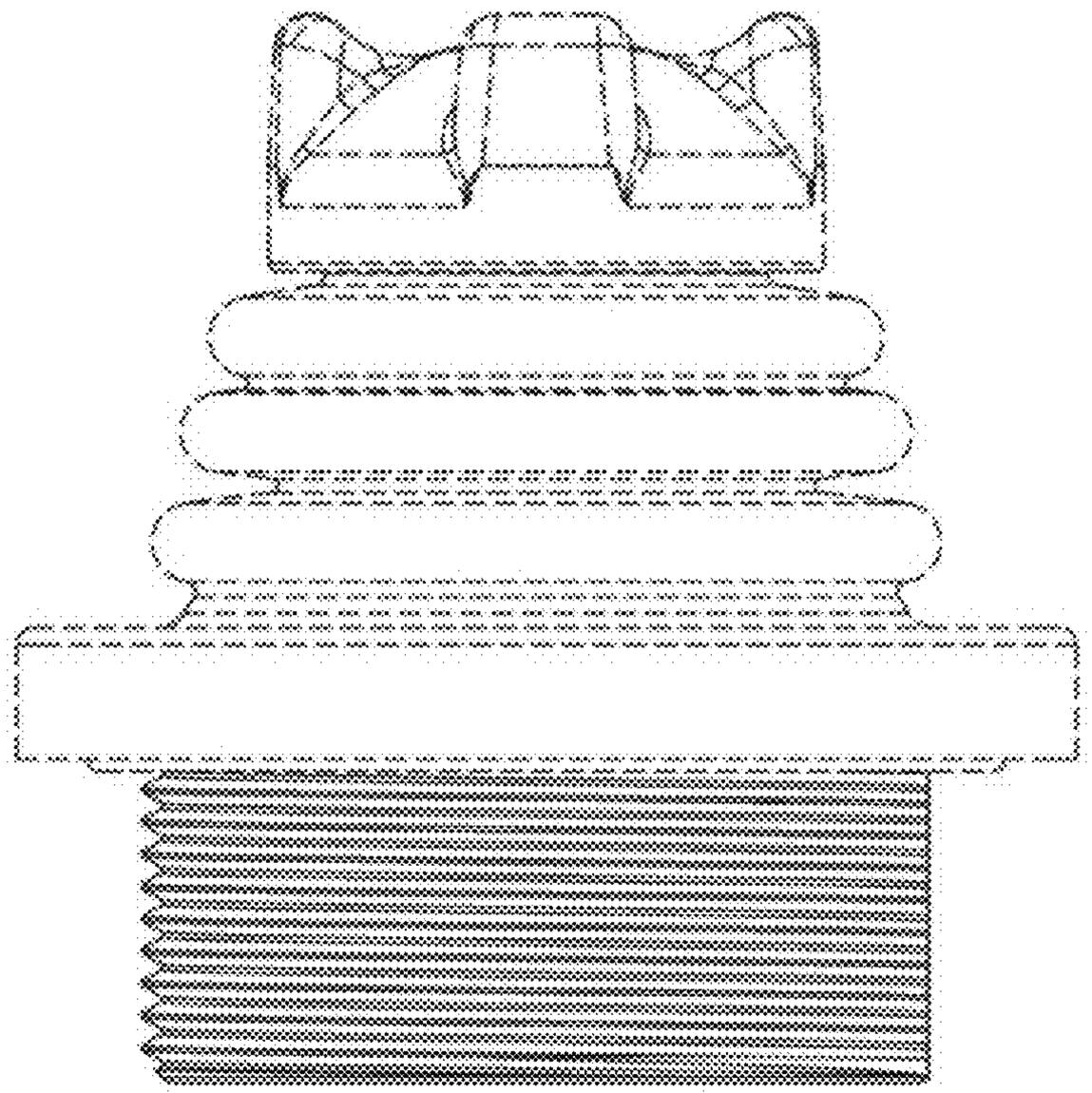


FIG. 14

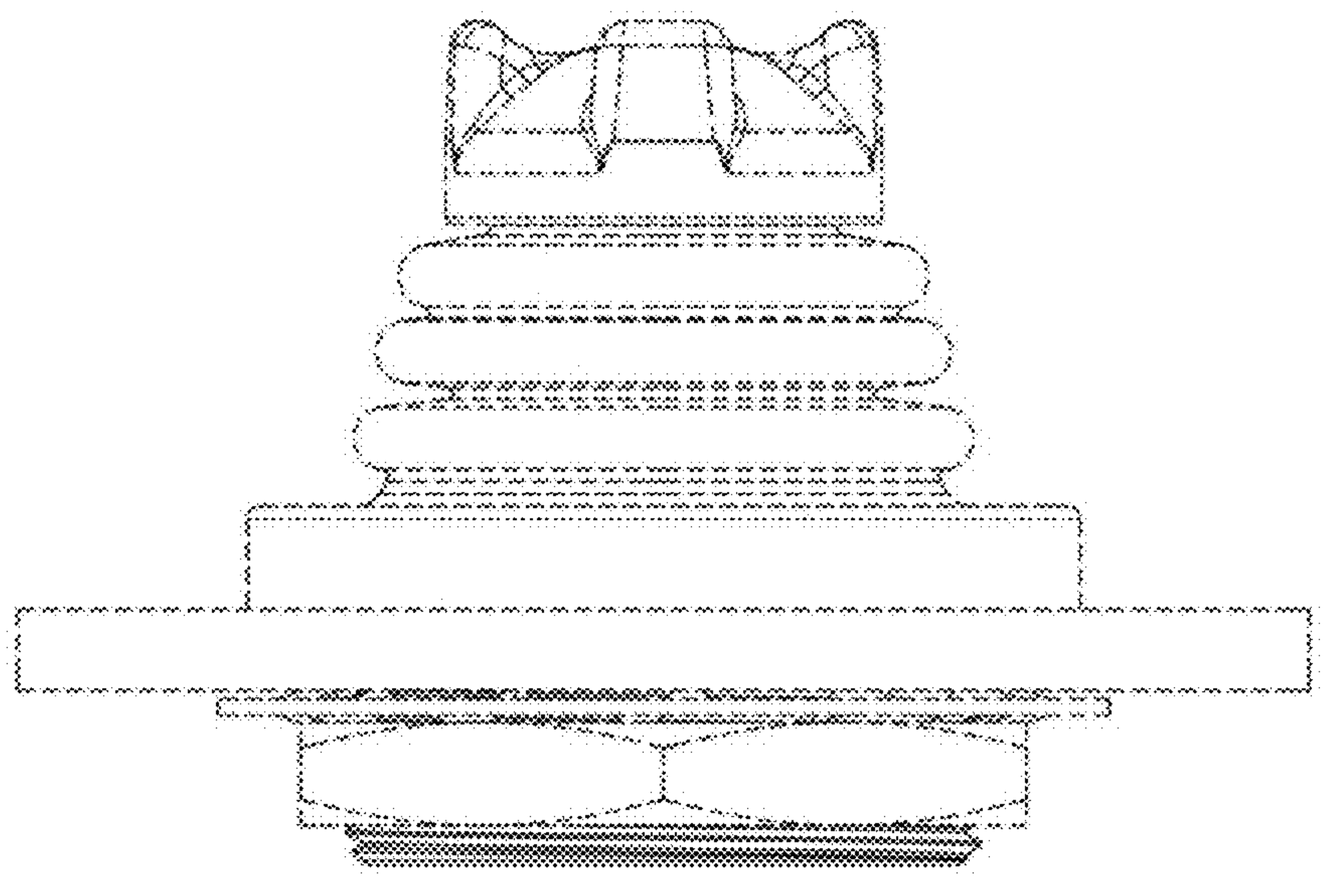


FIG. 15

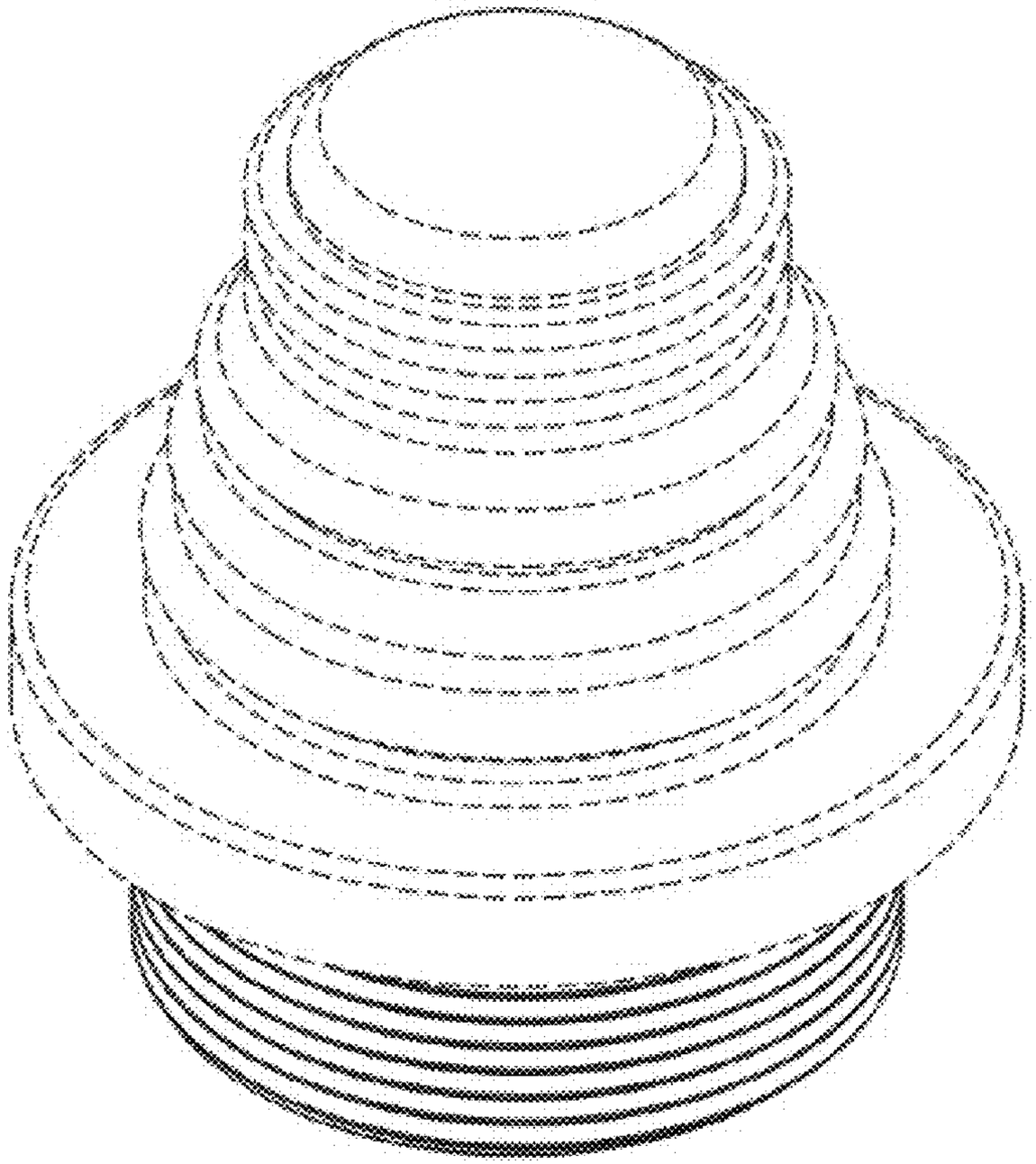


FIG. 16

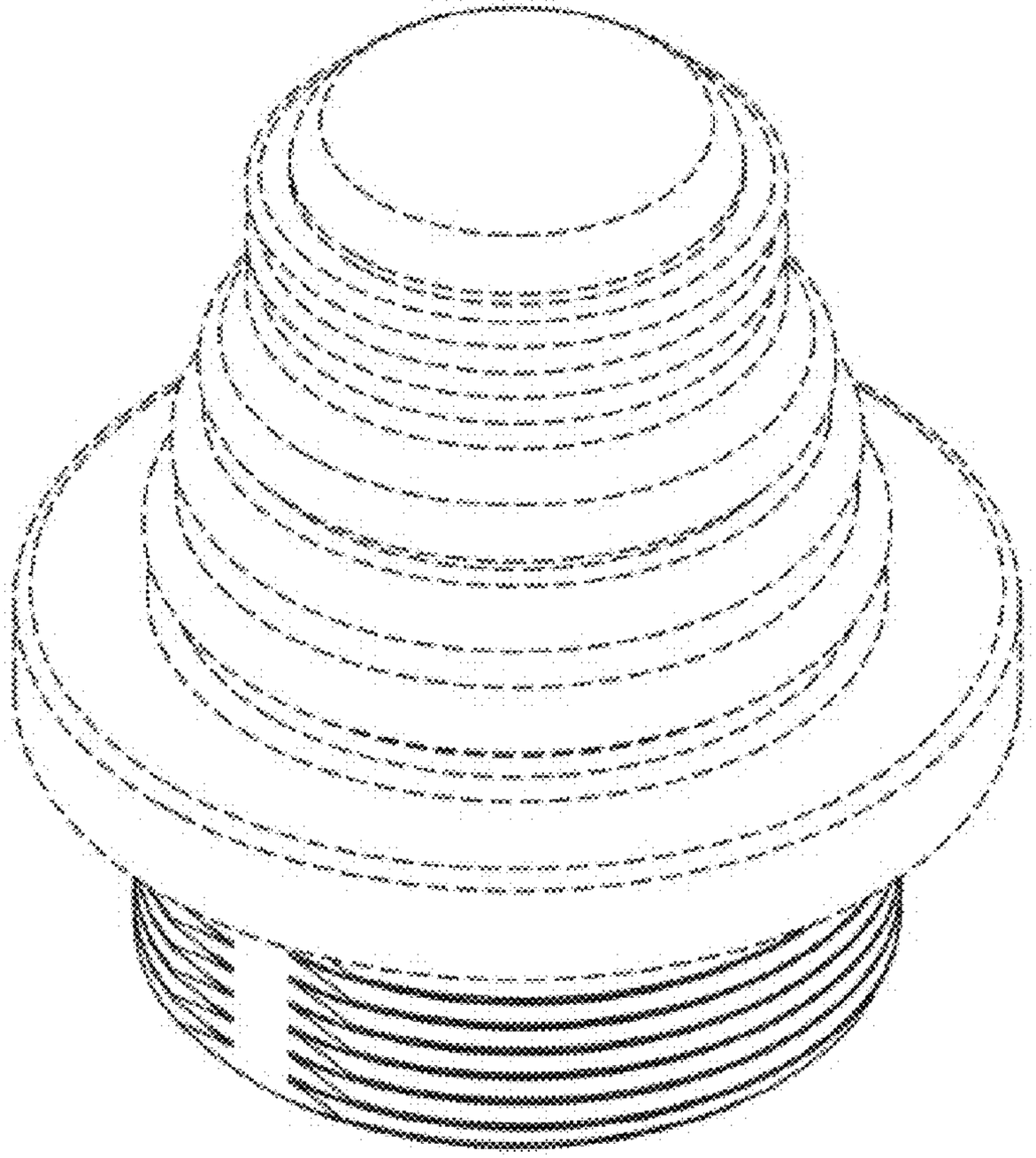


FIG. 17

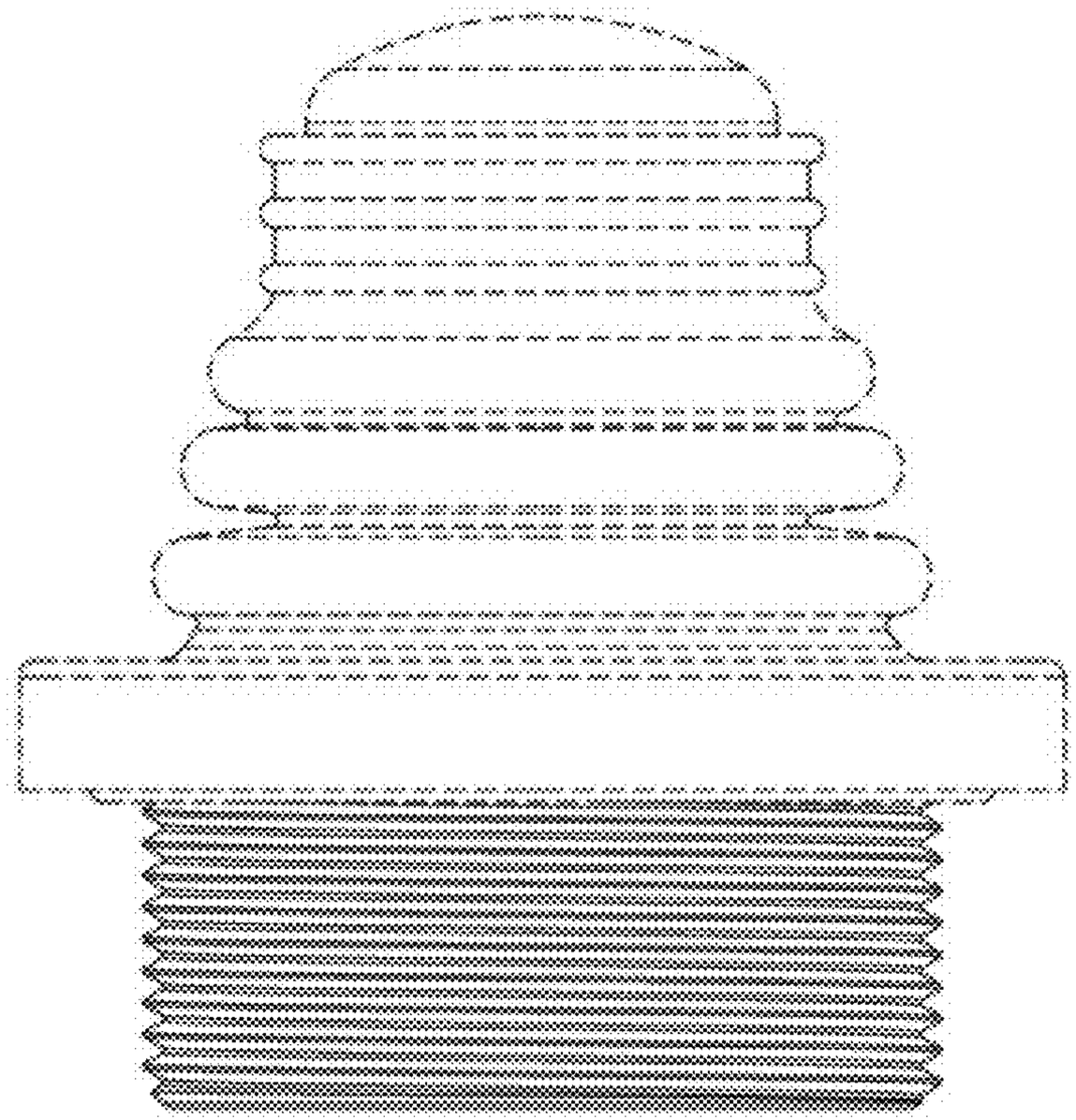


FIG. 18

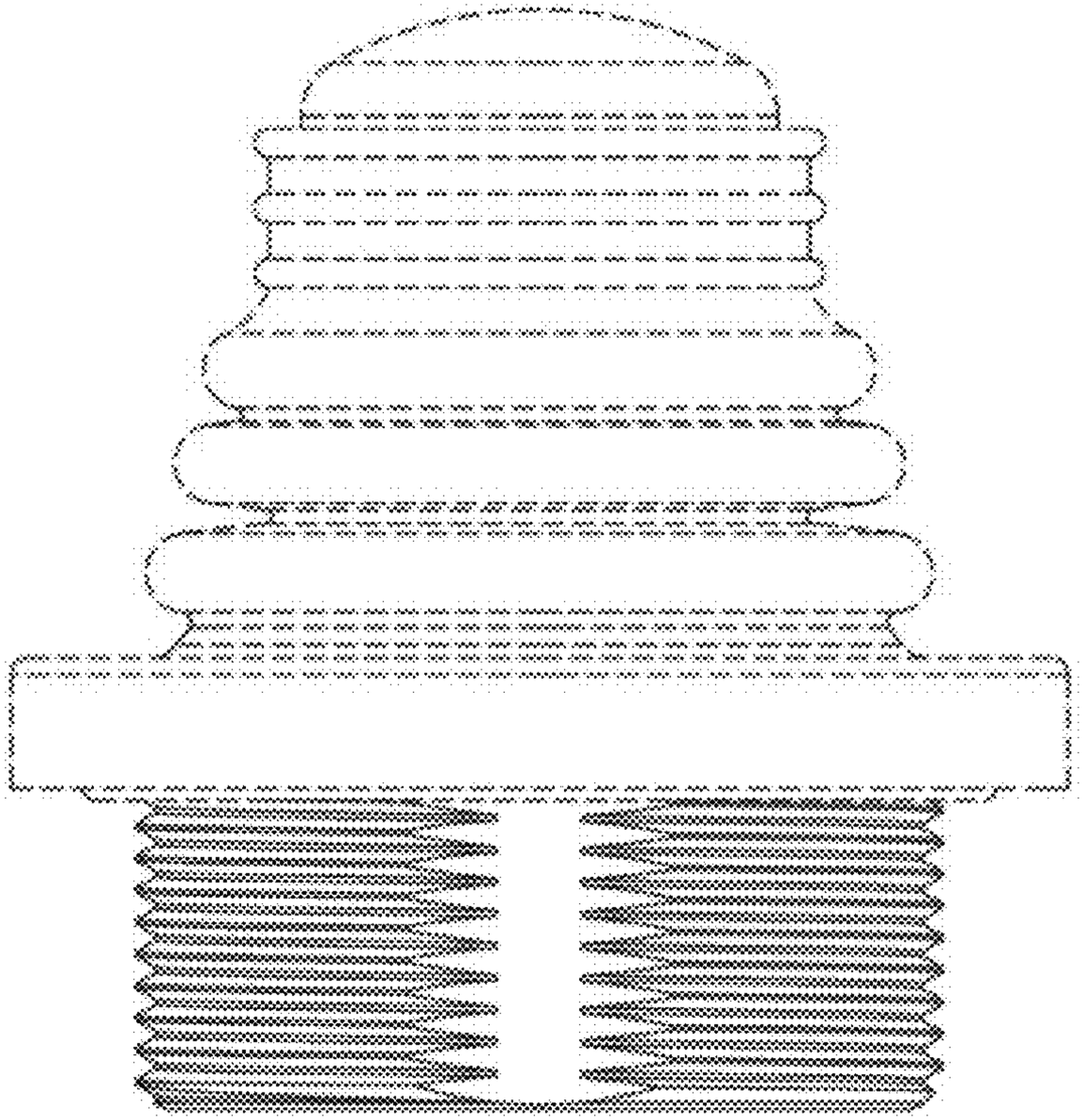


FIG. 19

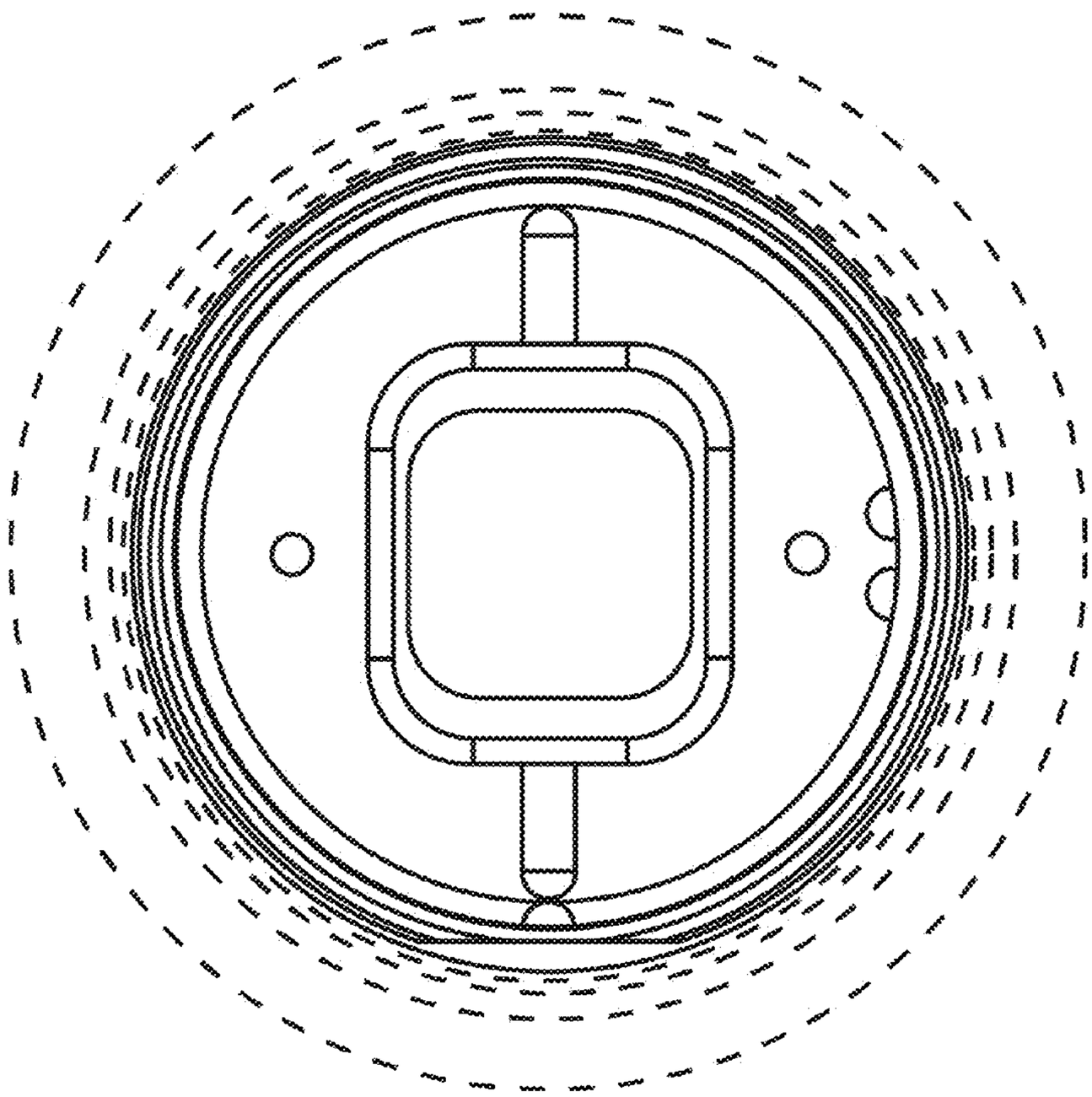


FIG. 20

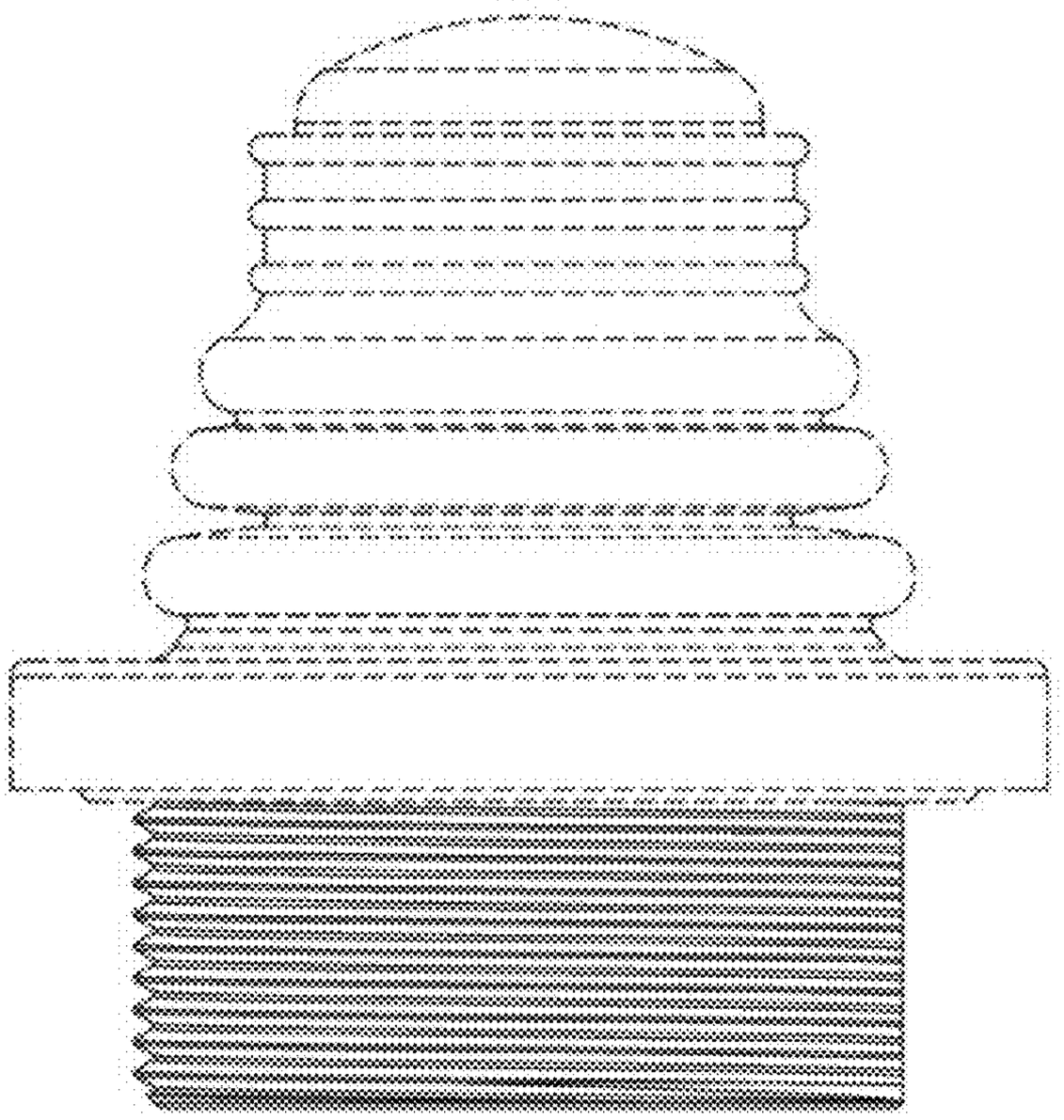


FIG. 21