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

(10) **Patent No.:** **US D878,882 S**
(45) **Date of Patent:** **** Mar. 24, 2020**

(54) **BOLT EXTRACTOR**

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(72) Inventor: **Chia-Hao Huang**, Taichung (TW)

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

(21) Appl. No.: **29/661,622**

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(51) **LOC (12) Cl.** **08-05**

(52) **U.S. Cl.**
USPC **D8/14**

(58) **Field of Classification Search**
USPC D8/14, 51
CPC Y10T 29/53687; Y10T 29/53596; Y10T
29/53952; Y10T 29/53883; B25B 27/24;
B25B 27/02; B25B 27/023; B25B 27/14;
B25B 27/18
See application file for complete search history.

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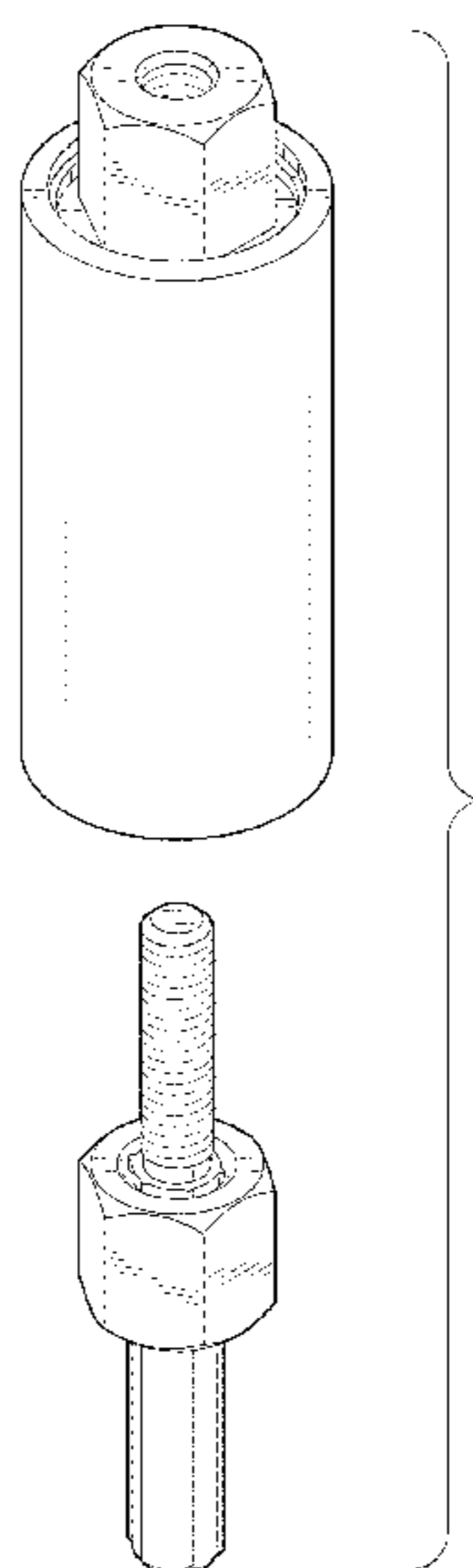
(57) **CLAIM**

The ornamental design for a bolt extractor, as shown and described.

DESCRIPTION

FIG. 1 is an exploded perspective view of a bolt extractor embodying the new design;
 FIG. 2 is an exploded front view thereof;
 FIG. 3 is an exploded rear view thereof;
 FIG. 4 is an exploded left side elevation view thereof;
 FIG. 5 is an exploded right side elevation view thereof;
 FIG. 6 is a top plan view thereof;
 FIG. 7 is a bottom plan view thereof;
 FIG. 8 is another exploded perspective view thereof;
 FIG. 9 is a perspective view of the upper component of the bolt extractor;
 FIG. 10 is a front elevation view thereof, the rear elevation view being identical;
 FIG. 11 is a left side elevation view thereof, the right side elevation view being identical;
 FIG. 12 is a top plan view thereof;
 FIG. 13 is a bottom plan view thereof;
 FIG. 14 is a perspective view of the lower component of the bolt extractor;
 FIG. 15 is a front elevation view thereof, the rear elevation view being identical;
 FIG. 16 is a left side elevation view thereof, the right side elevation view being identical;
 FIG. 17 is a top plan view thereof;
 FIG. 18 is a bottom plan view thereof;
 FIG. 19 is a perspective view of the bolt extractor in an assembled state; and,
 FIG. 20 is a longitudinal sectional view thereof, the section being taken along lines 20-20 of FIG. 19.

1 Claim, 17 Drawing Sheets



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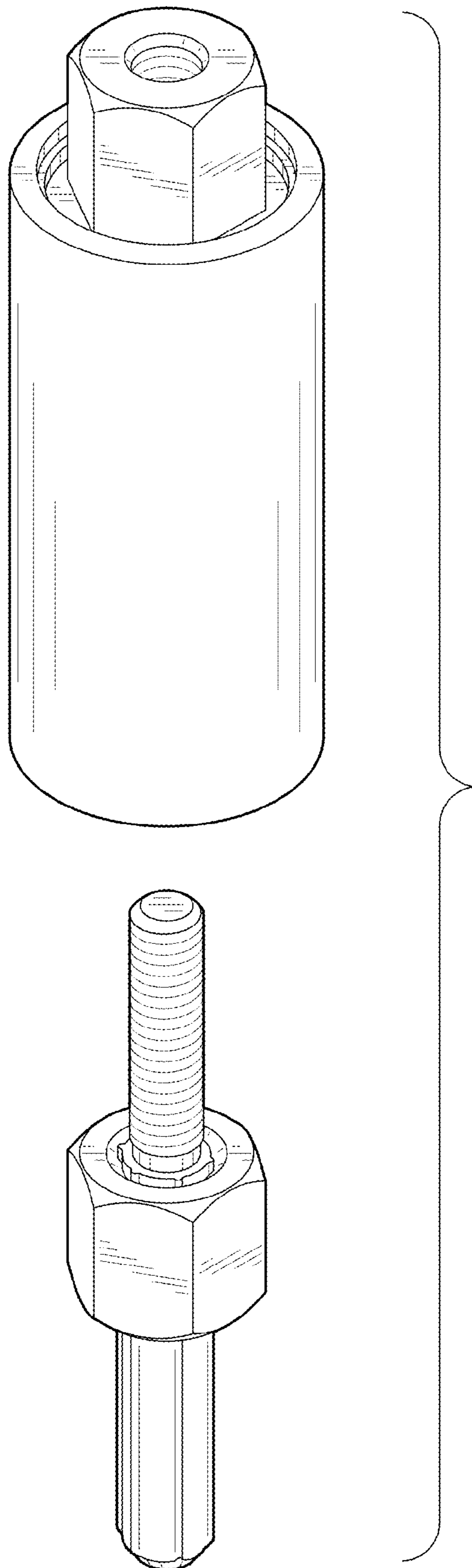


FIG. 1

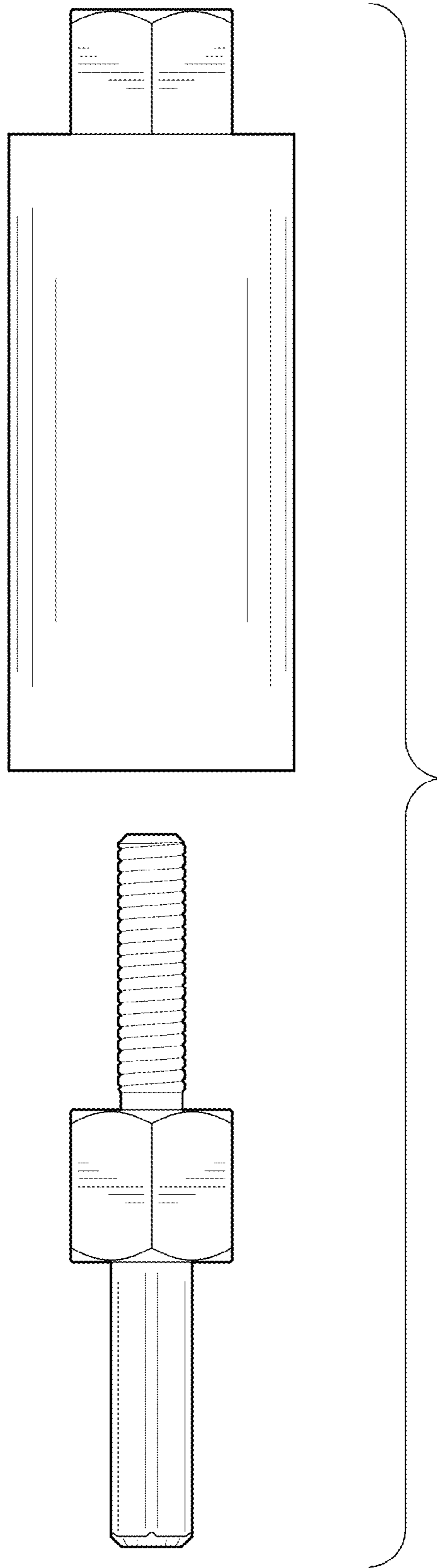


FIG. 2

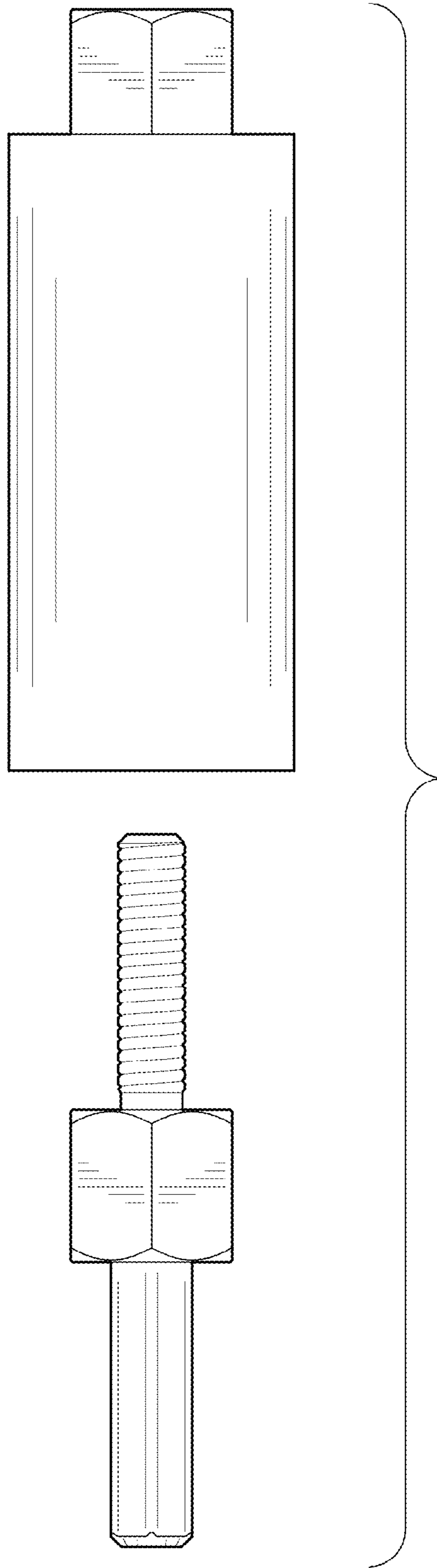


FIG. 3

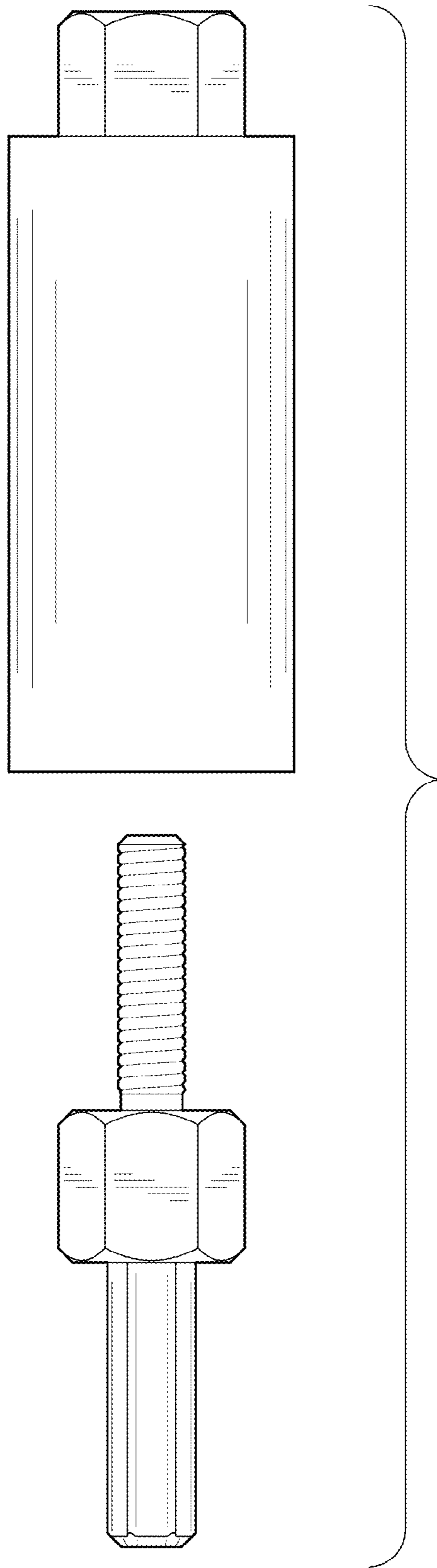


FIG. 4

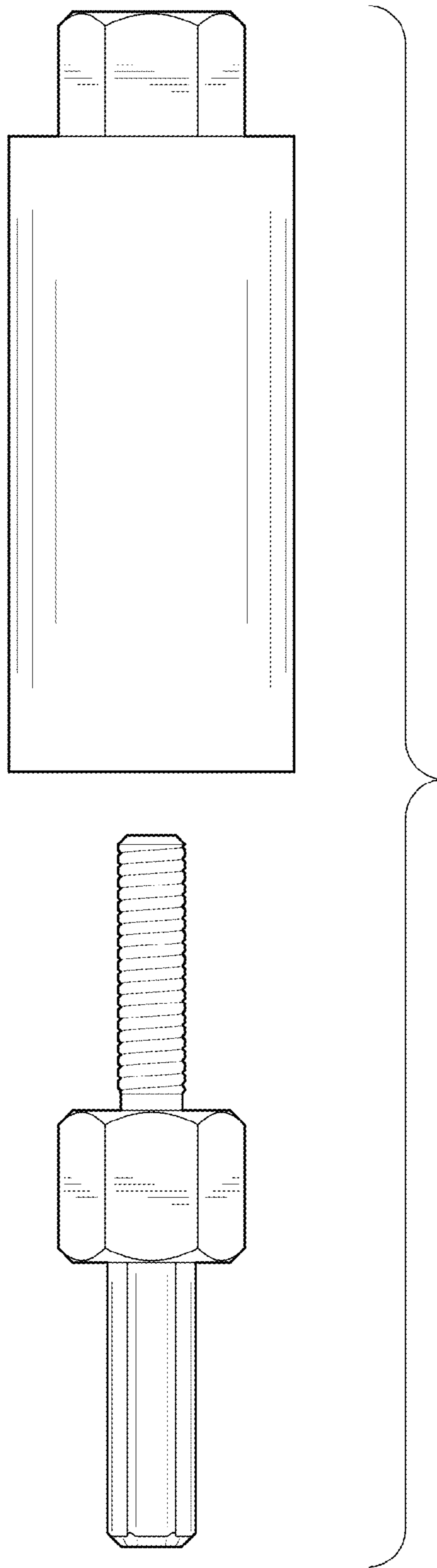


FIG. 5

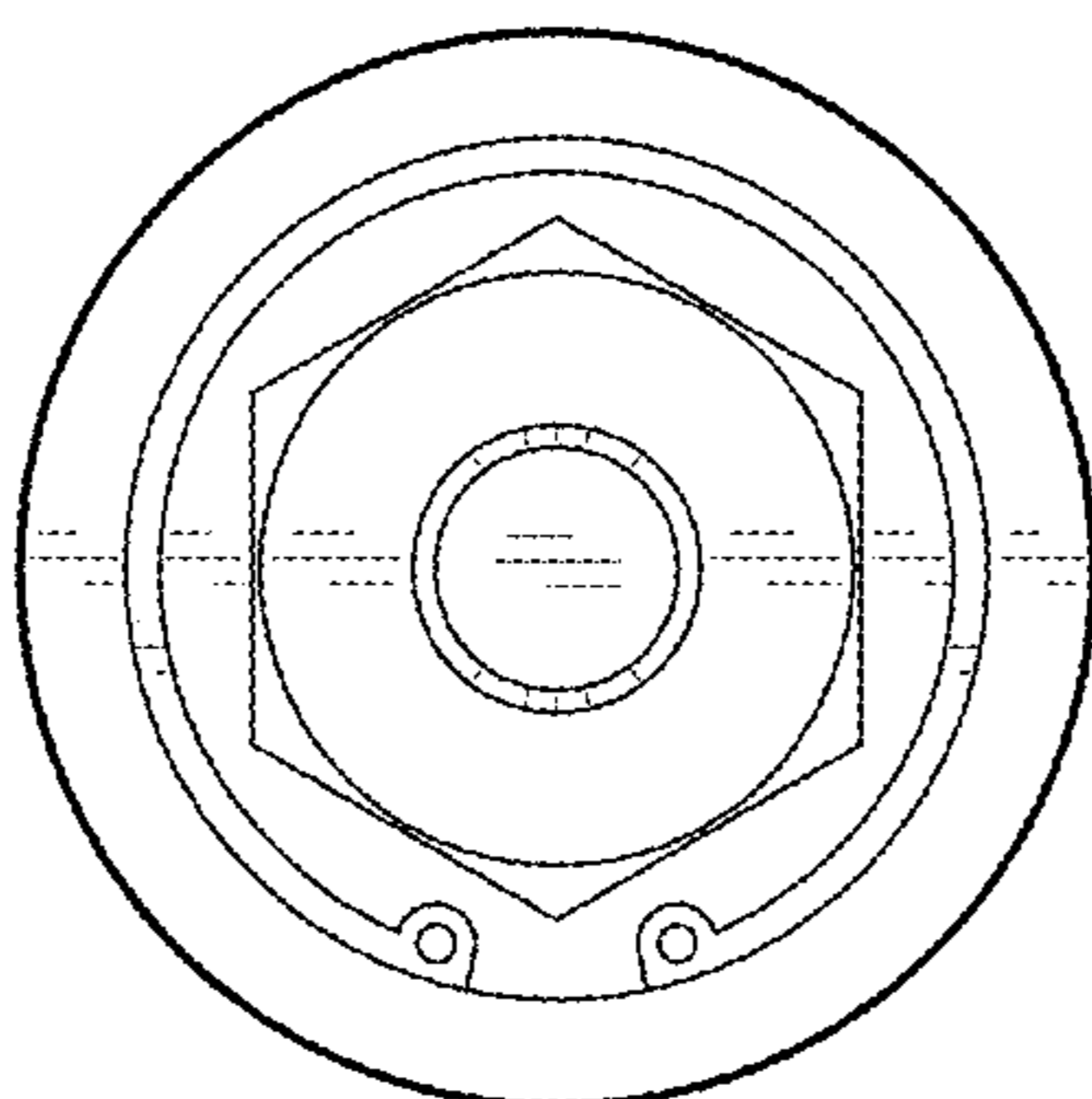


FIG. 6

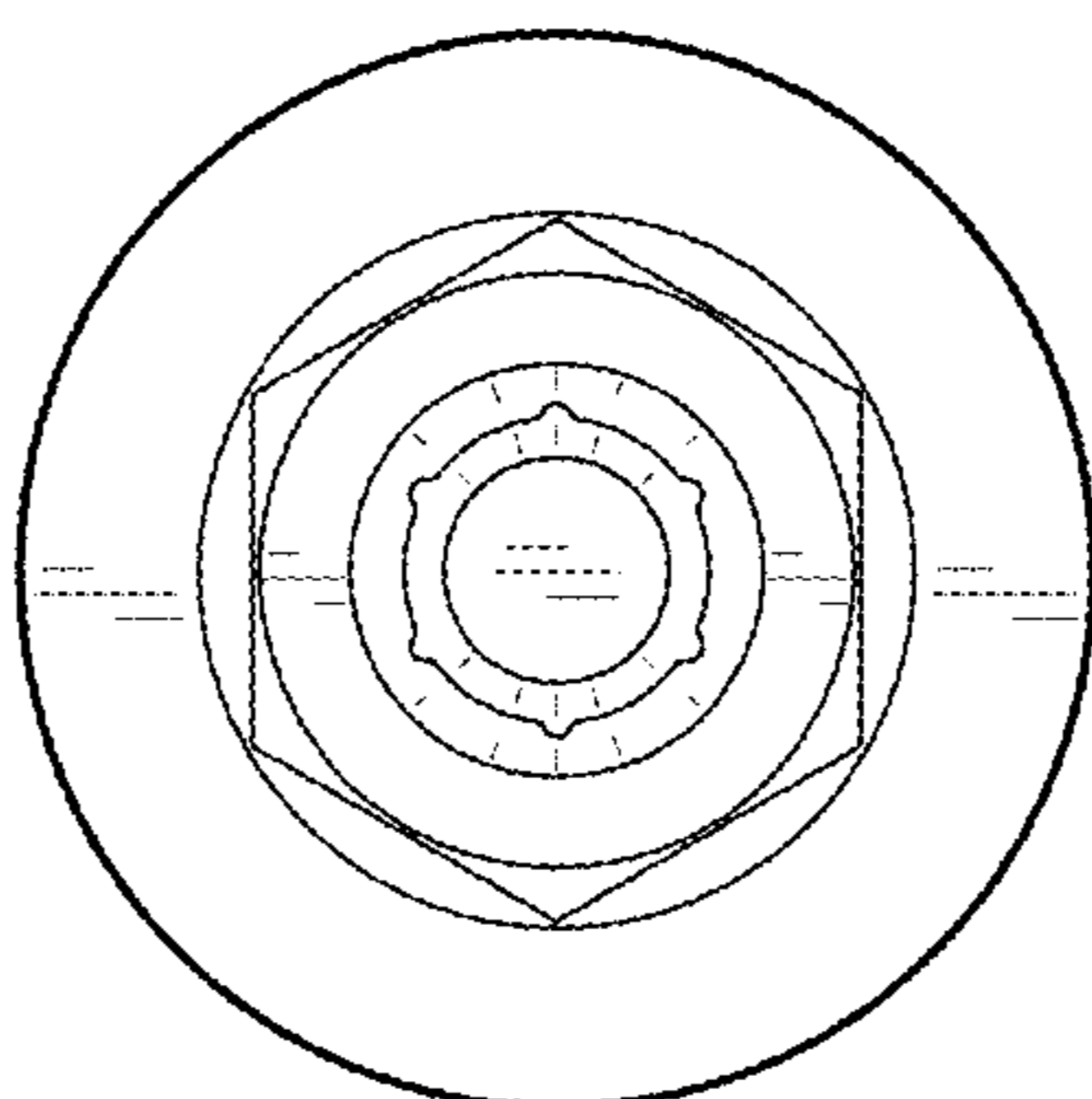


FIG. 7

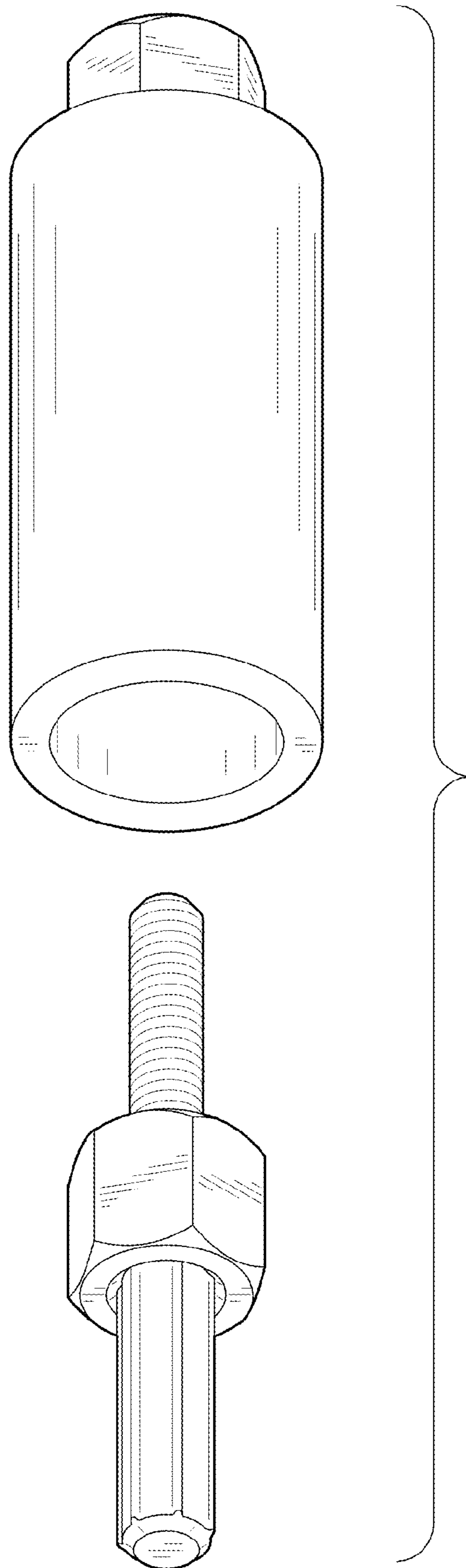


FIG. 8

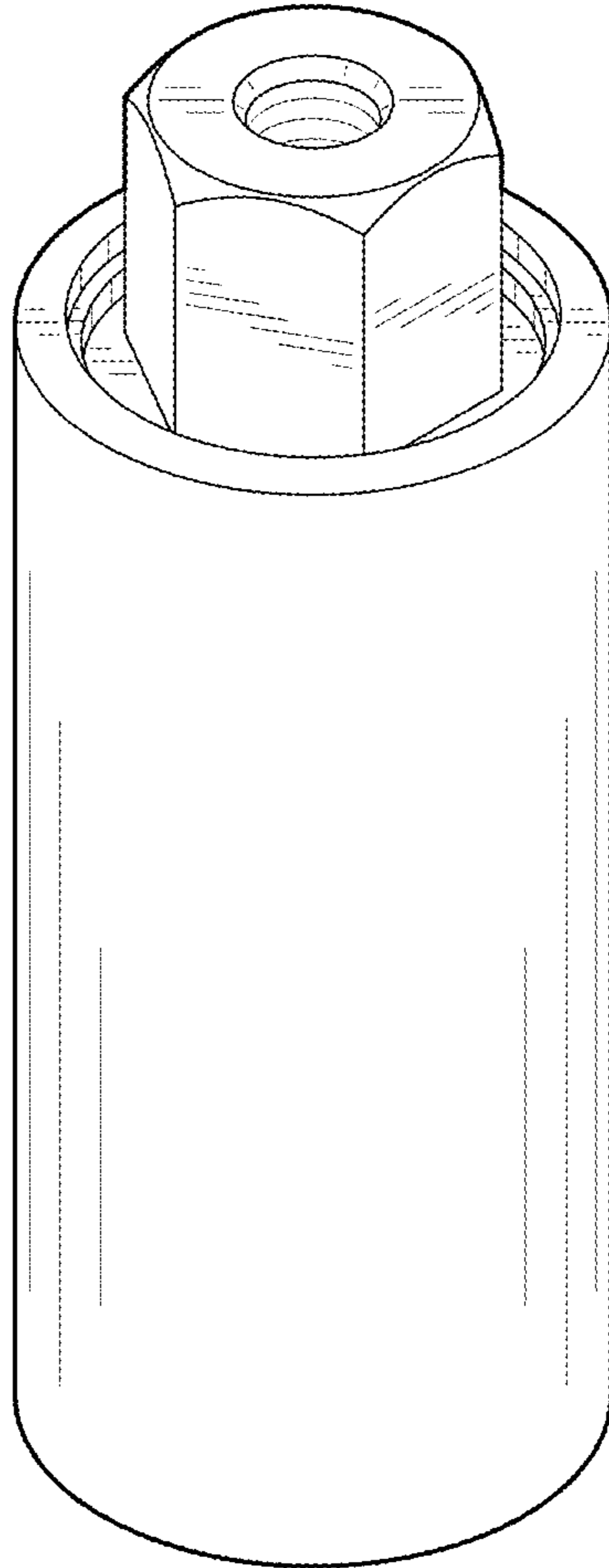


FIG. 9

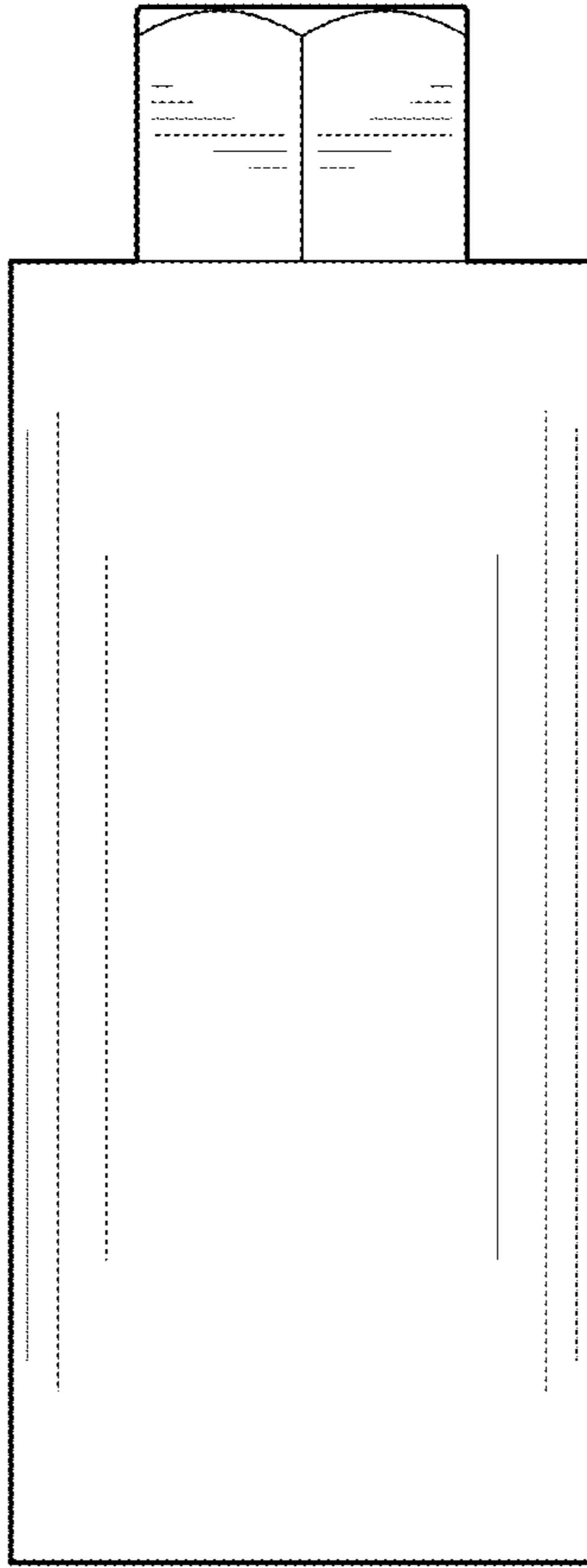


FIG. 10

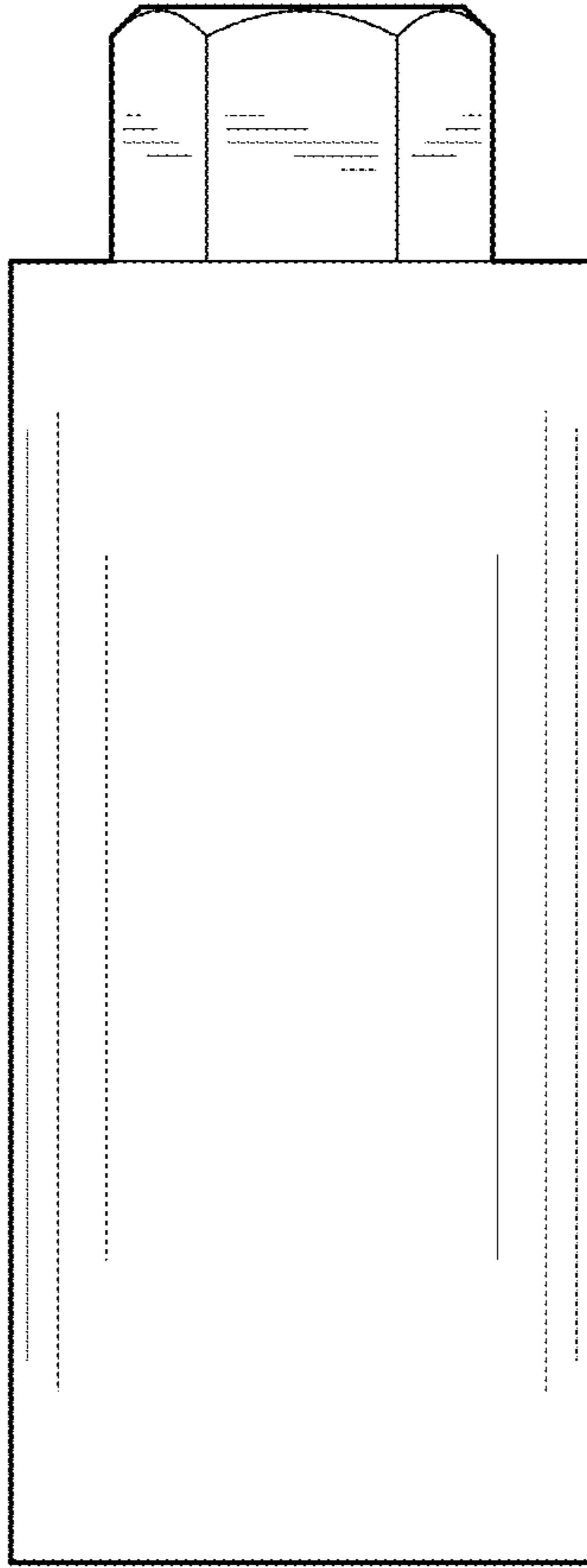


FIG. 11

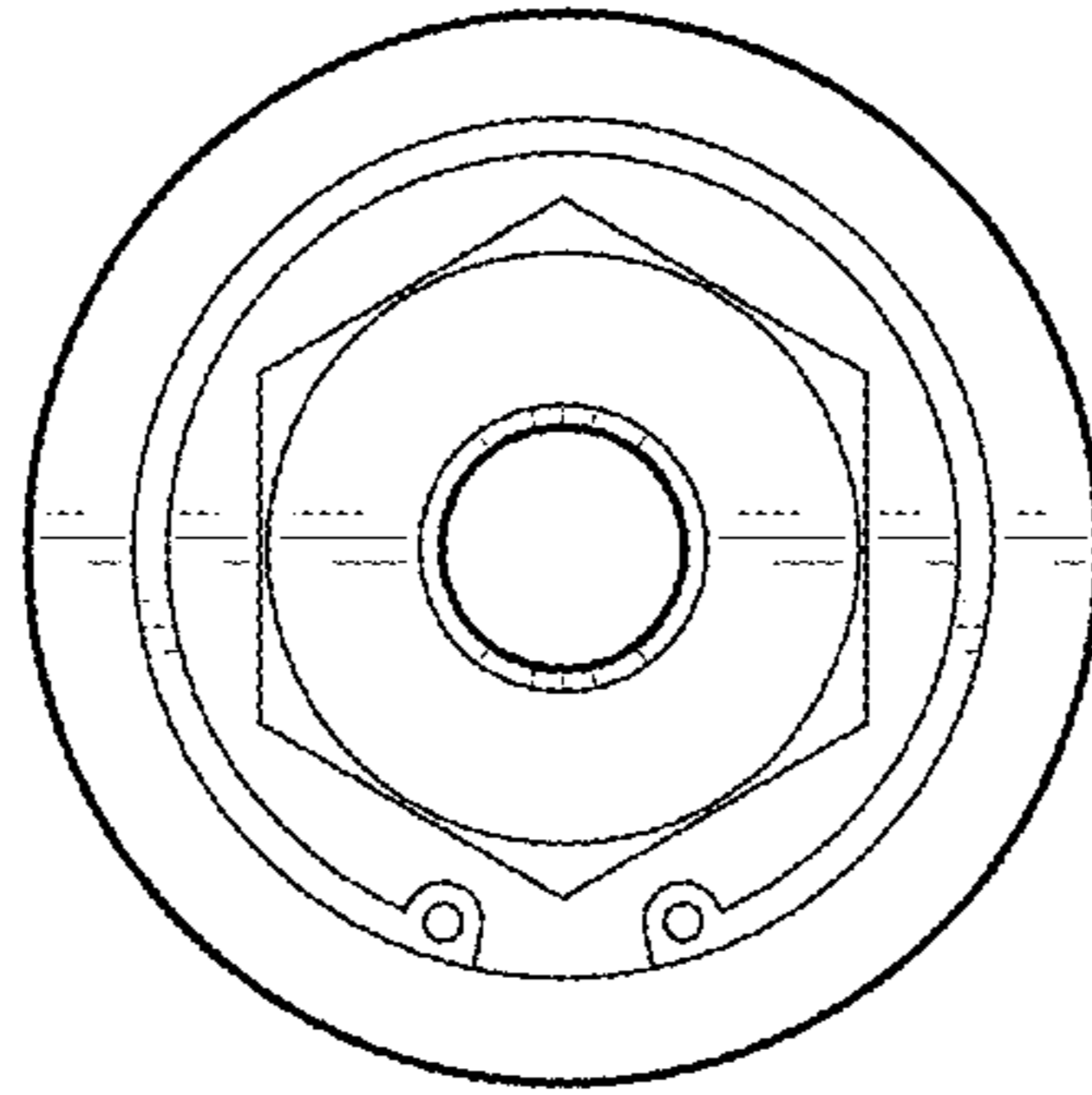


FIG. 12

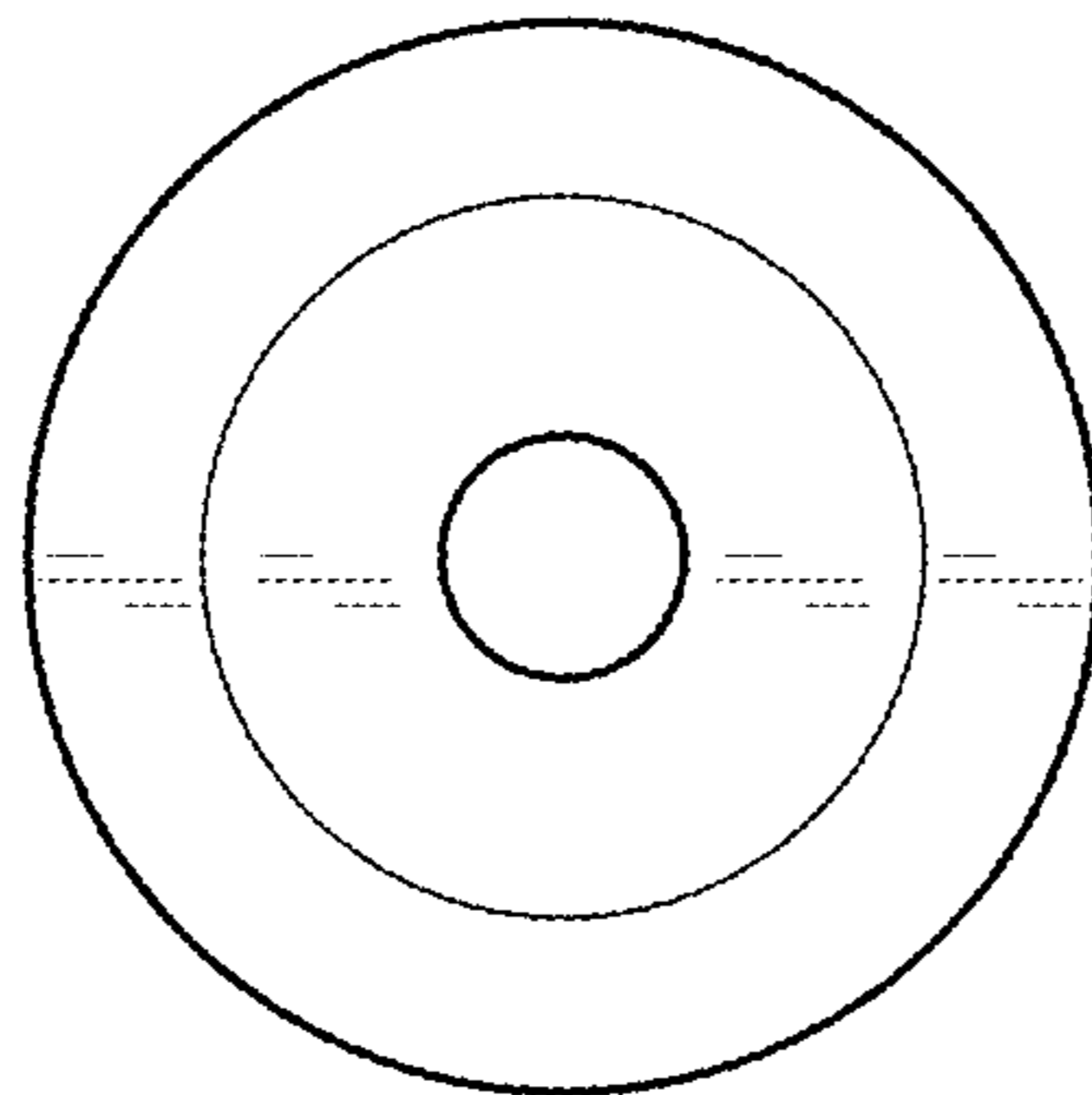


FIG. 13

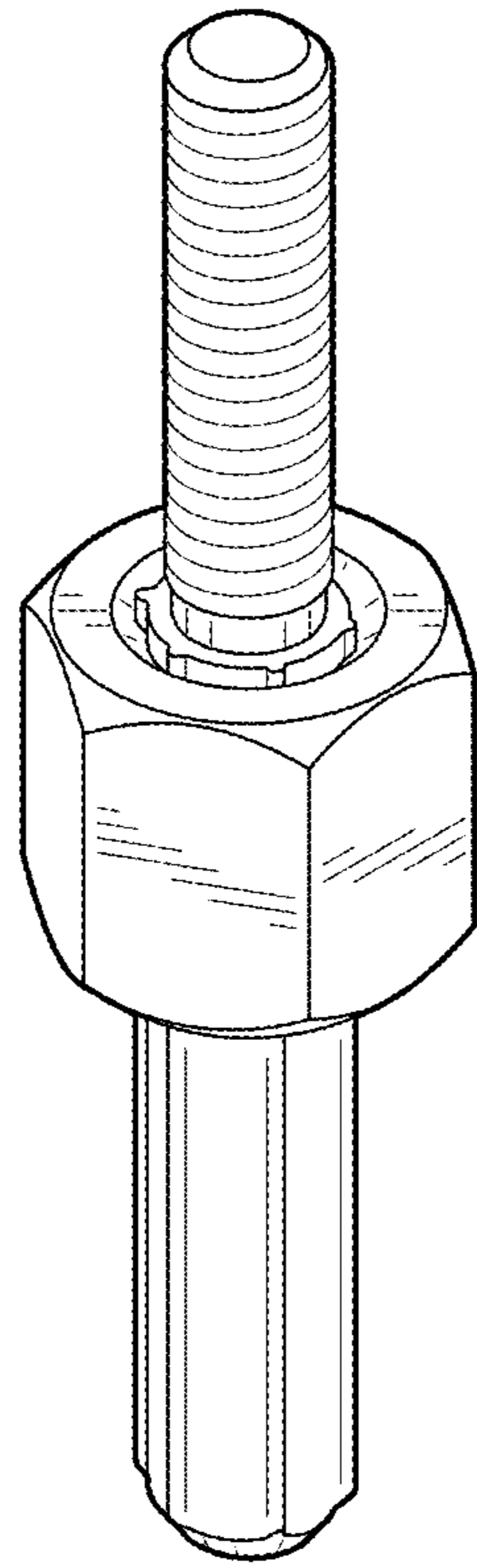


FIG. 14

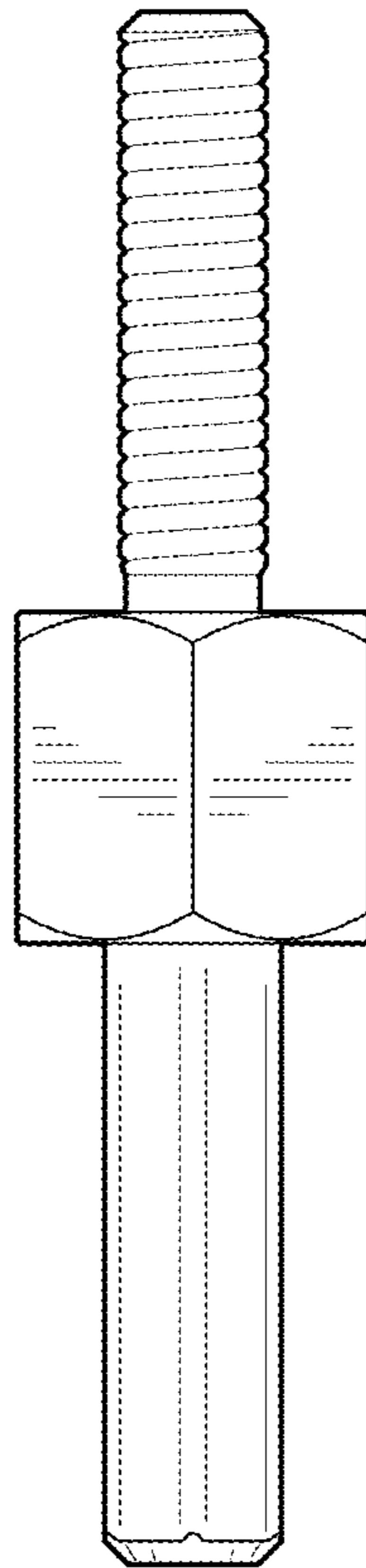


FIG. 15

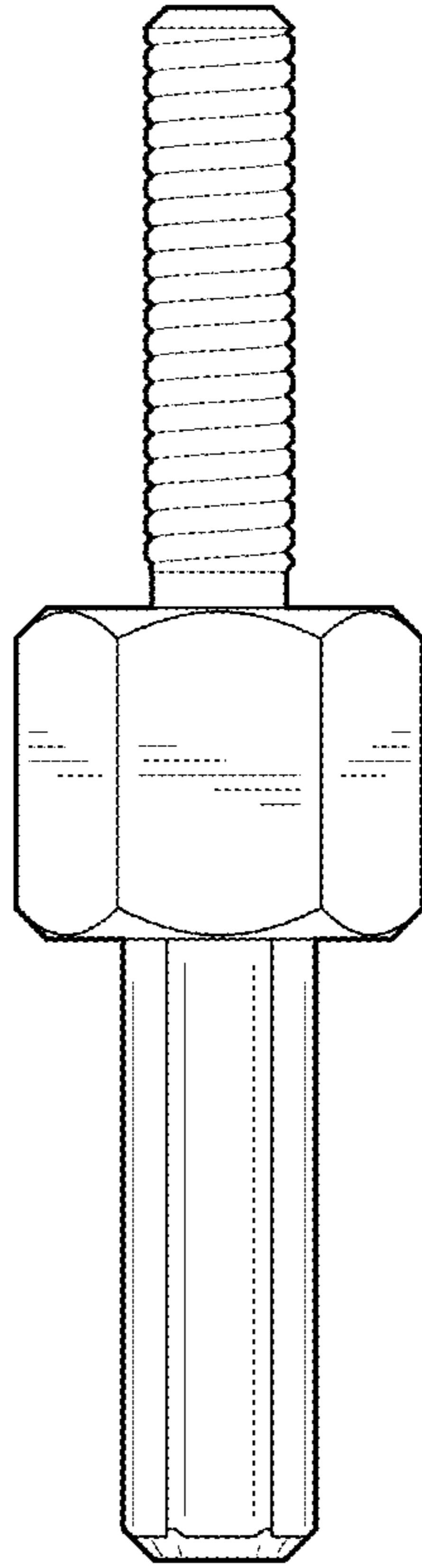


FIG. 16

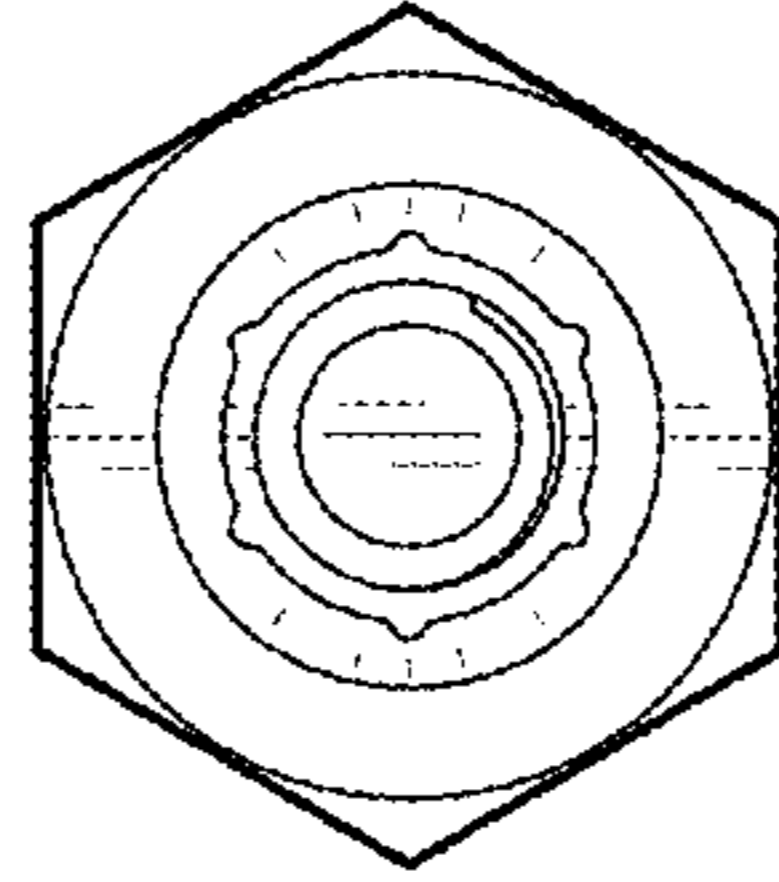


FIG. 17

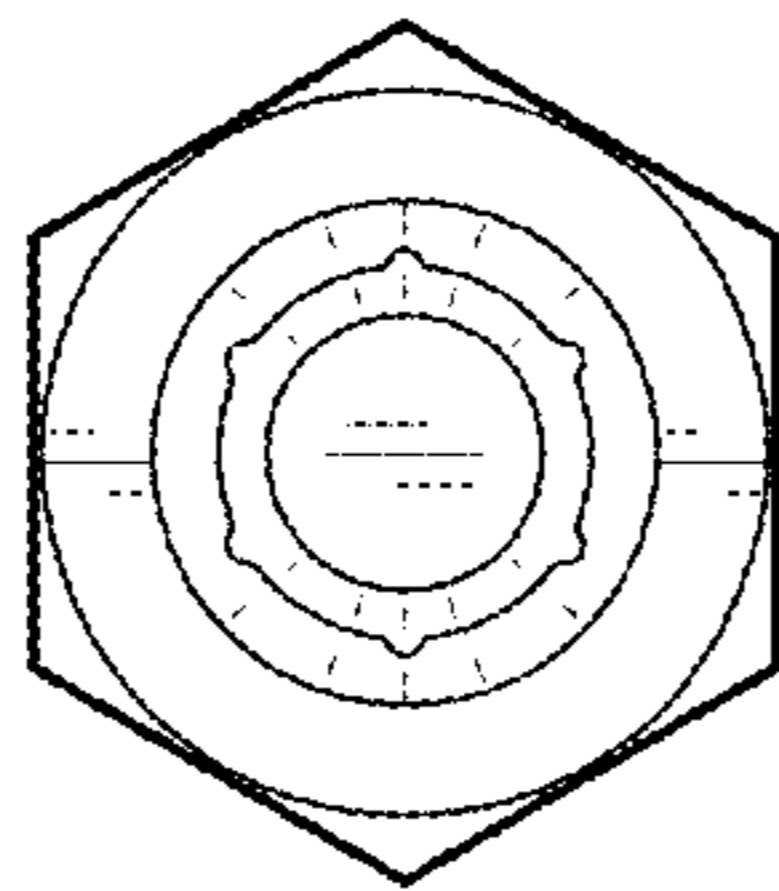


FIG. 18

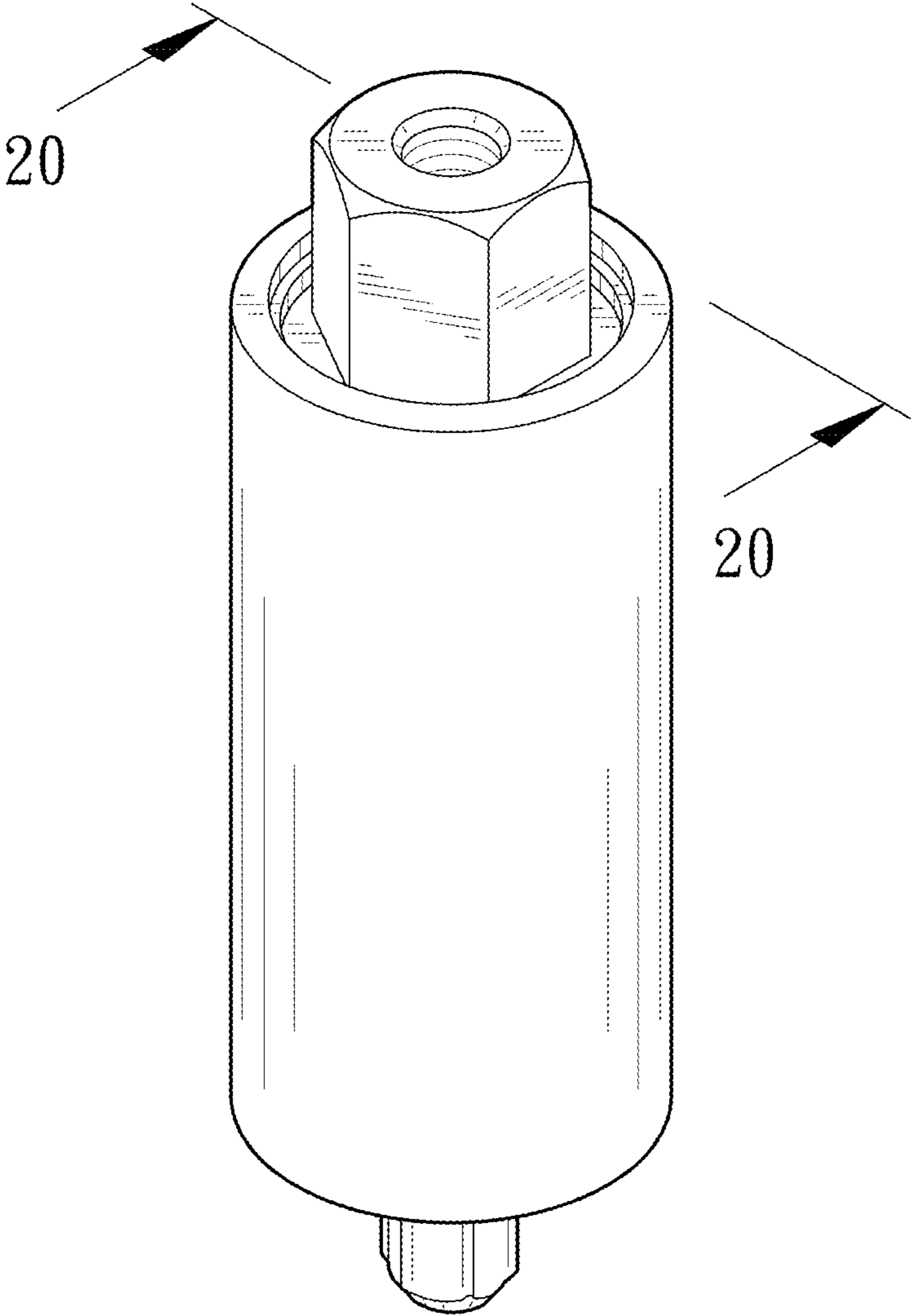


FIG. 19

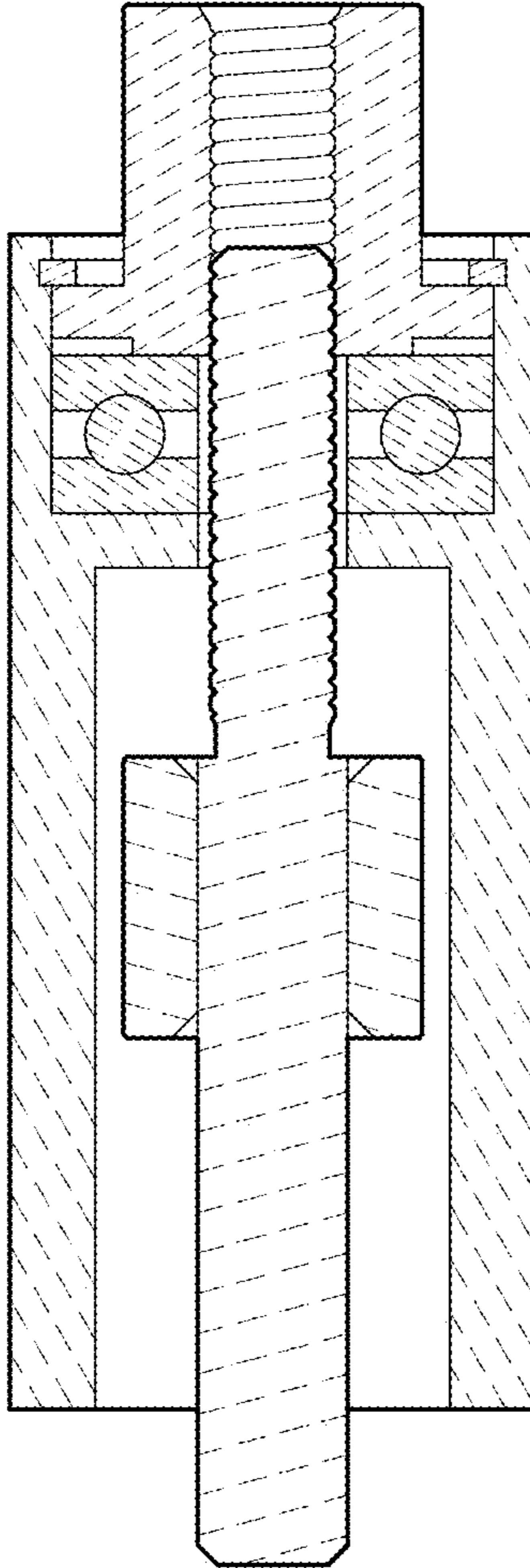


FIG. 20