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(12) **United States Design Patent** (10) **Patent No.:** **US D962,297 S**
Sullivan et al. (45) **Date of Patent:** **** Aug. 30, 2022**

(54) **SIGNAL TRANSMISSION PIN FOR A PERFORATING GUN ASSEMBLY**

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(57) **CLAIM**

The ornamental design for a signal transmission pin for a perforating gun assembly, as shown and described.

(73) Assignee: **XConnect, LLC**, Denver, CO (US)

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

DESCRIPTION

(21) Appl. No.: **29/826,372**

(22) Filed: **Feb. 11, 2022**

Related U.S. Application Data

(62) Division of application No. 29/745,004, filed on Aug. 3, 2020, now Pat. No. Des. 950,611.

(51) **LOC (13) Cl.** **15-03**

(52) **U.S. Cl.**
USPC **D15/21**

(58) **Field of Classification Search**
USPC D15/21
CPC E21B 43/11; E21B 43/112; E21B 43/114;
E21B 43/116; E21B 43/117; E21B
43/119; E21B 43/00; F42D 1/04; F42D
1/05; F42D 1/043
See application file for complete search history.

FIG. 1 is a first perspective view of a signal transmission pin for a perforating gun assembly, showing our new design. The signal transmission pin is shown residing within a bulkhead.

FIG. 2 is a second perspective view of the signal transmission pin for a perforating gun assembly and bulkhead of FIG. 1, shown from a different angle.

FIG. 3 is a front plan view of the signal transmission pin for a perforating gun assembly and bulkhead of FIG. 1.

FIG. 4 is a rear plan view thereof.

FIG. 5 is a top plan view thereof.

FIG. 6 is a bottom plan view thereof.

FIG. 7 is a right side elevation view thereof.

FIG. 8 is a left side elevation view thereof.

FIG. 9 is a third perspective view of the signal transmission pin and bulkhead of FIGS. 1 and 2. Here, the o-rings have been removed.

FIG. 10 is a fourth perspective view of the signal transmission pin for a perforating gun assembly and bulkhead of FIG. 9, shown from a different angle

FIG. 11 is a front plan view of the signal transmission pin for a perforating gun assembly and bulkhead of FIGS. 1 and 2, with o-rings attached; and,

FIG. 12 is a rear plan view of the signal transmission pin and bulkhead of FIG. 11.

The broken lines in the drawings depict portions of the signal transmission pin for a perforating gun assembly that form no part of the claimed designs.

(56) **References Cited**

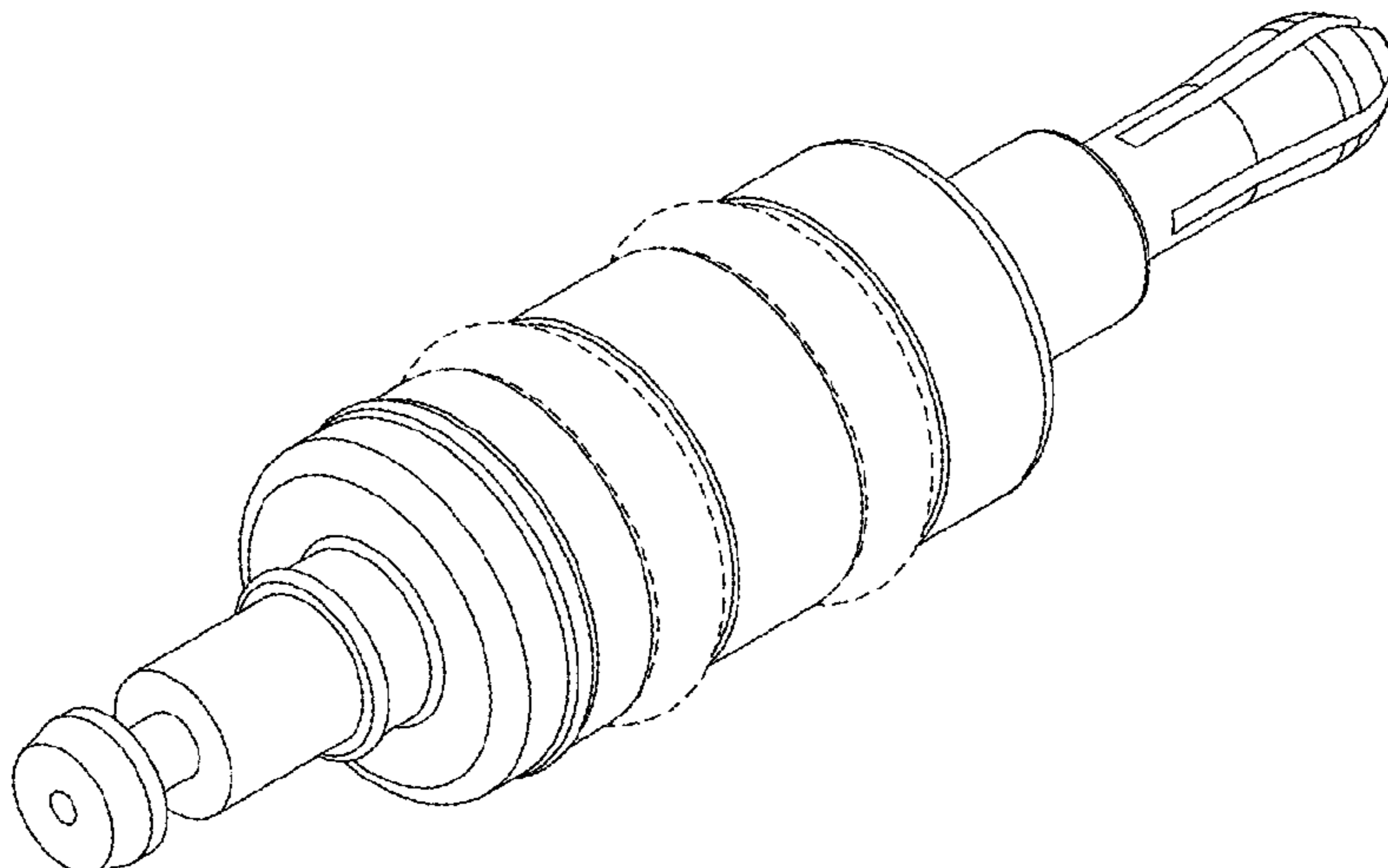
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Primary Examiner — Mark A Goodwin

1 Claim, 5 Drawing Sheets



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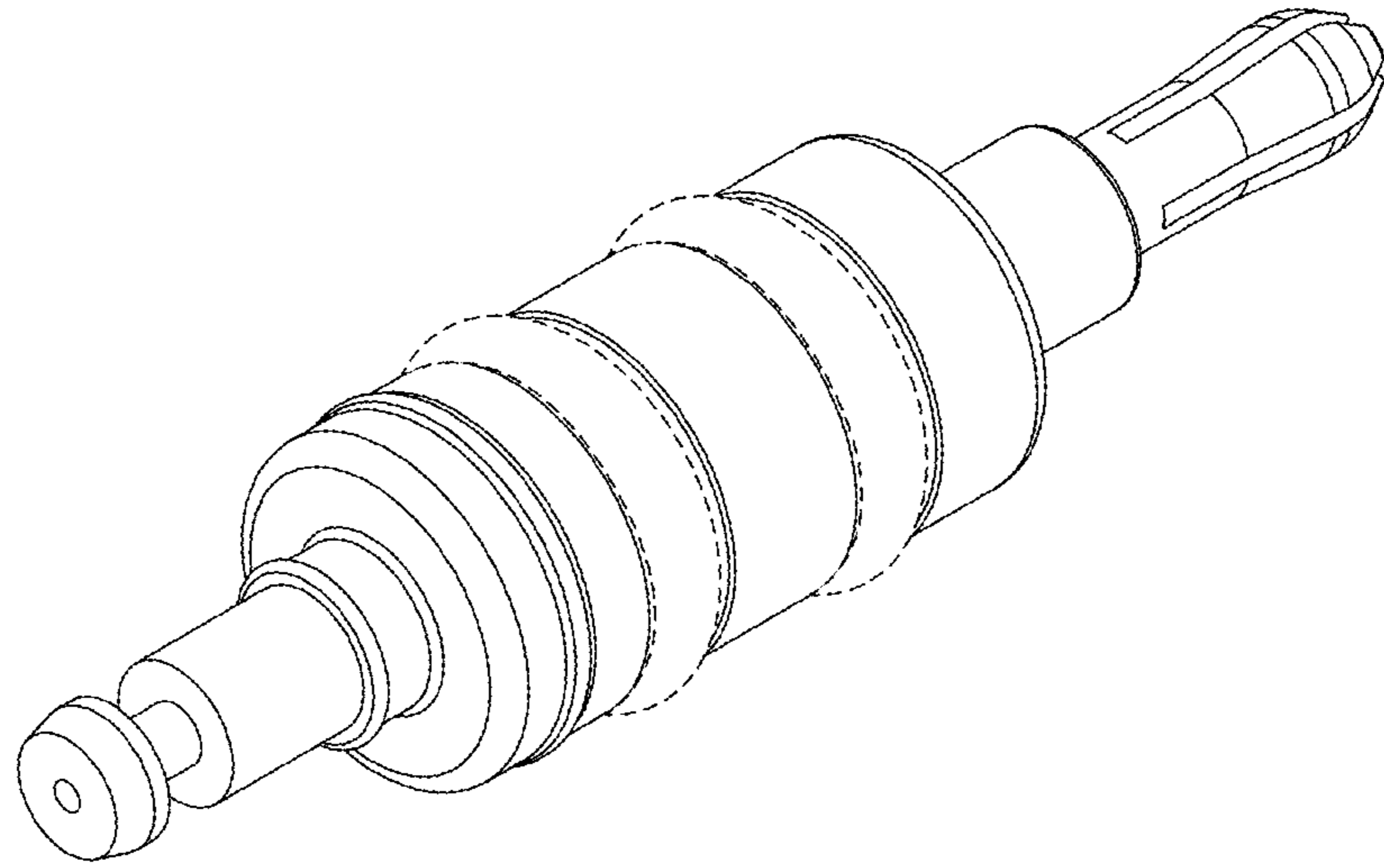


FIG. 1

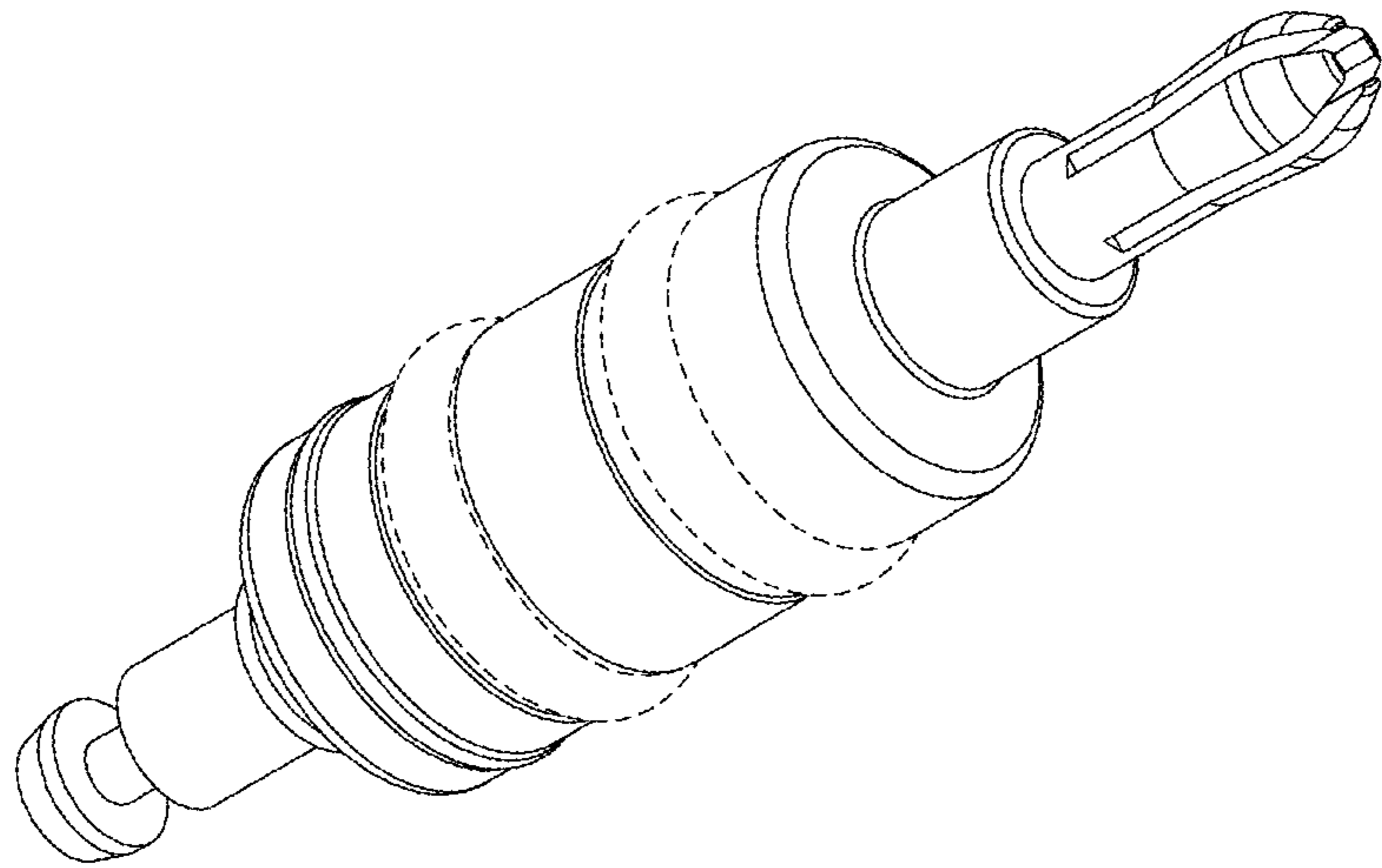


FIG. 2

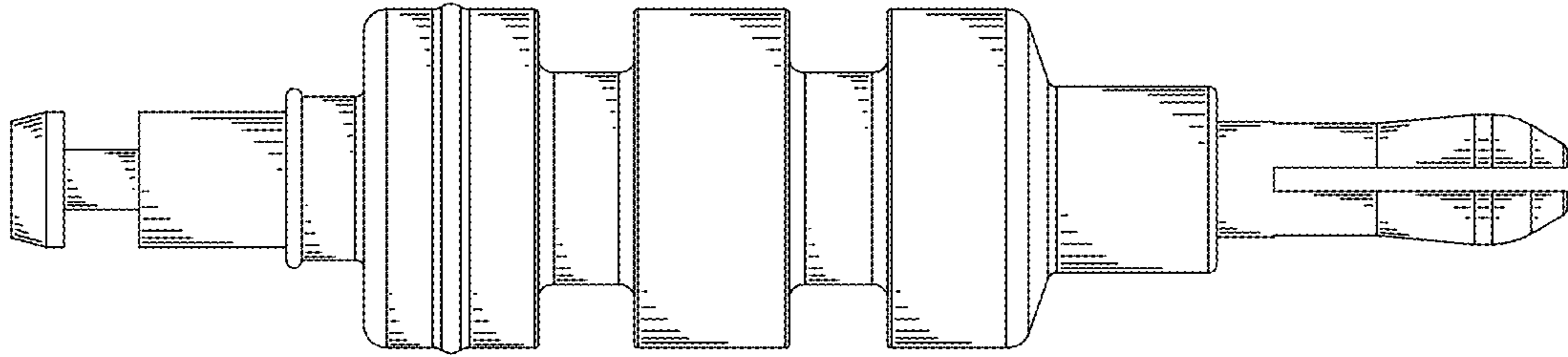


FIG. 3

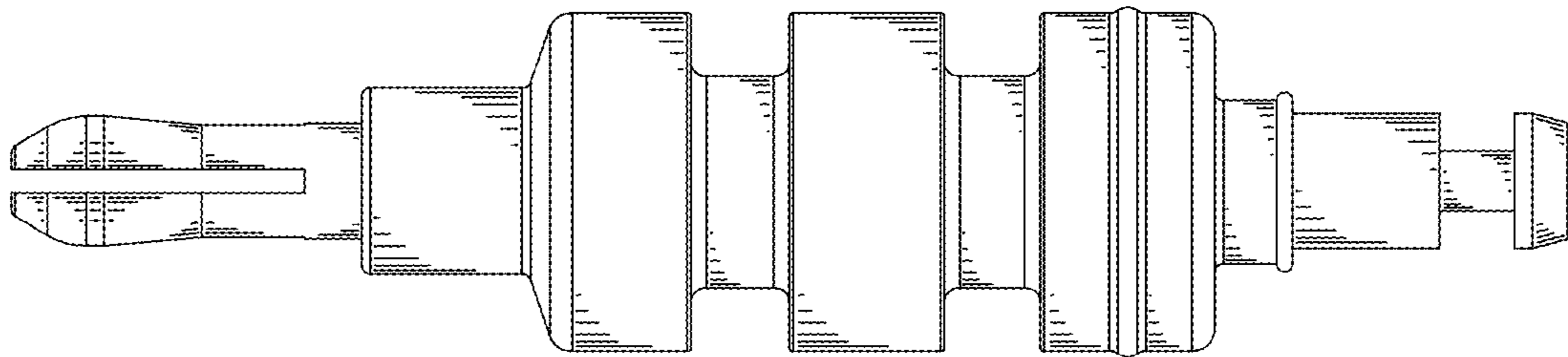


FIG. 4

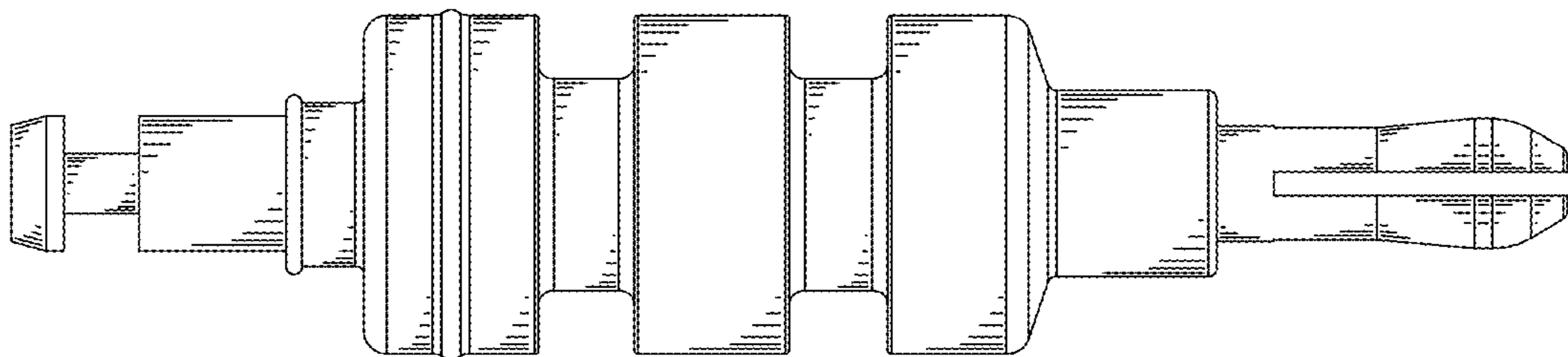


FIG. 5

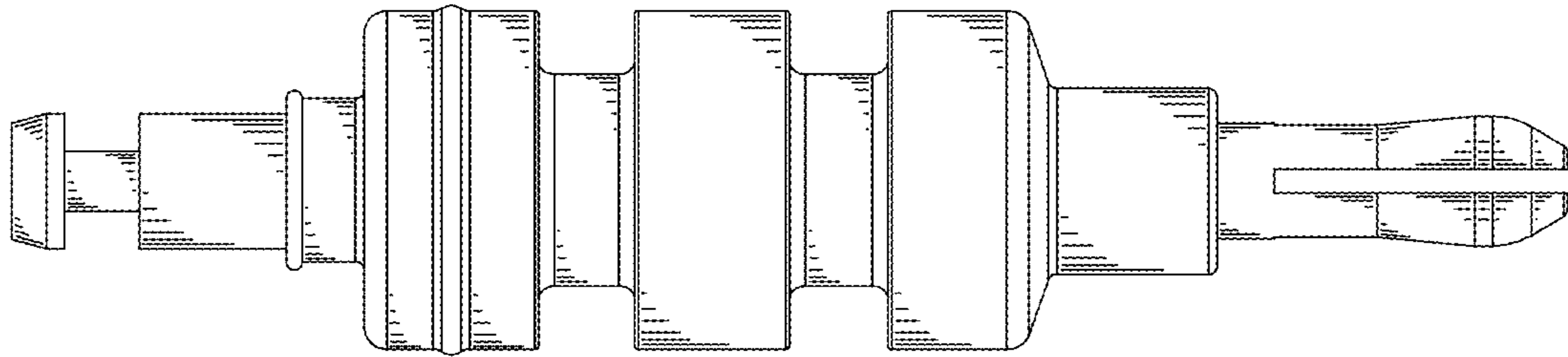


FIG. 6

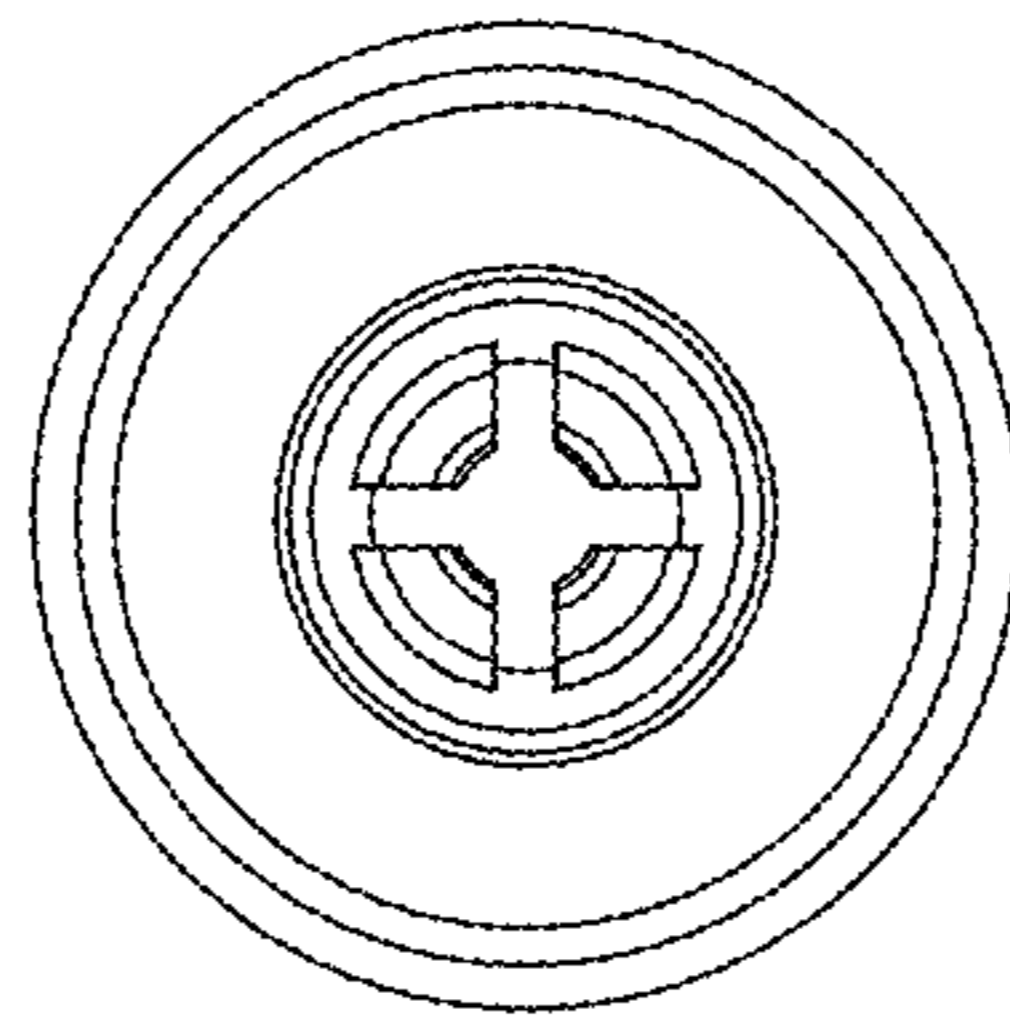


FIG. 7

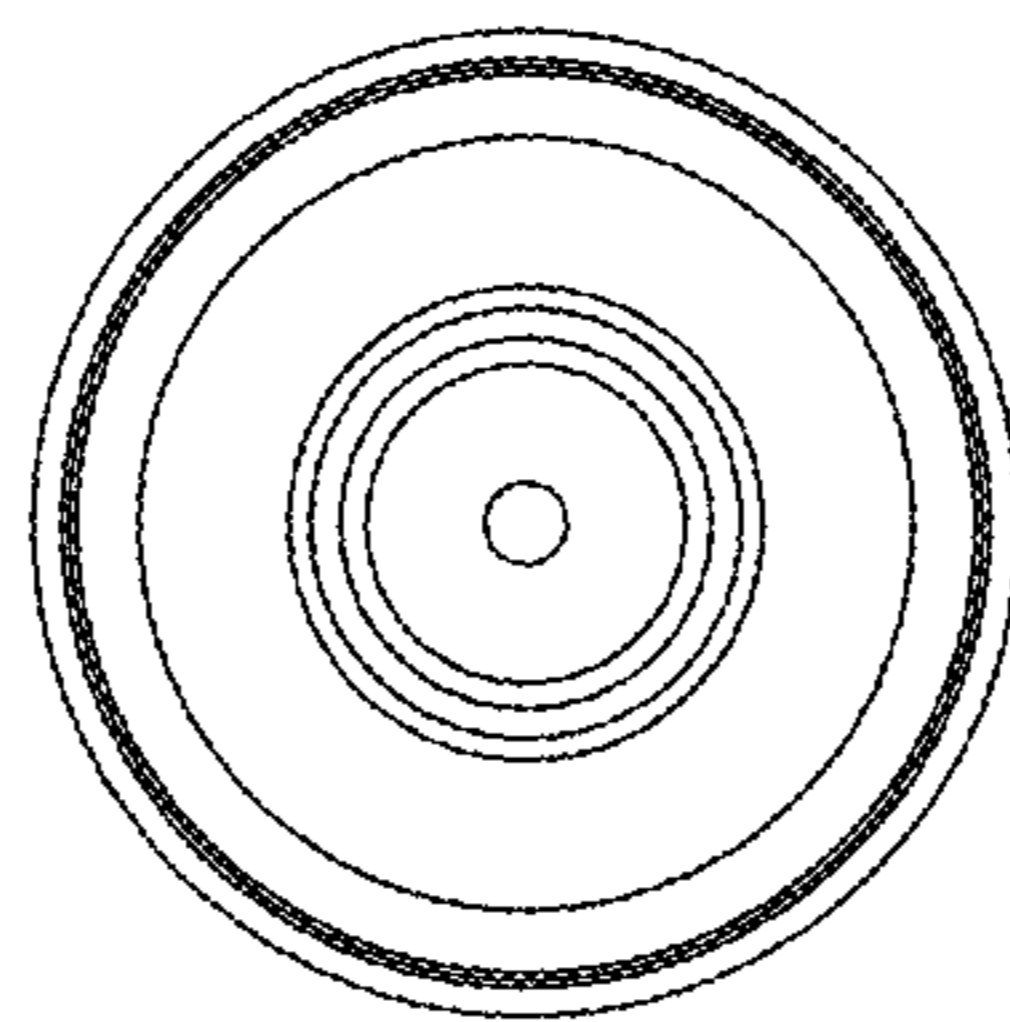


FIG. 8

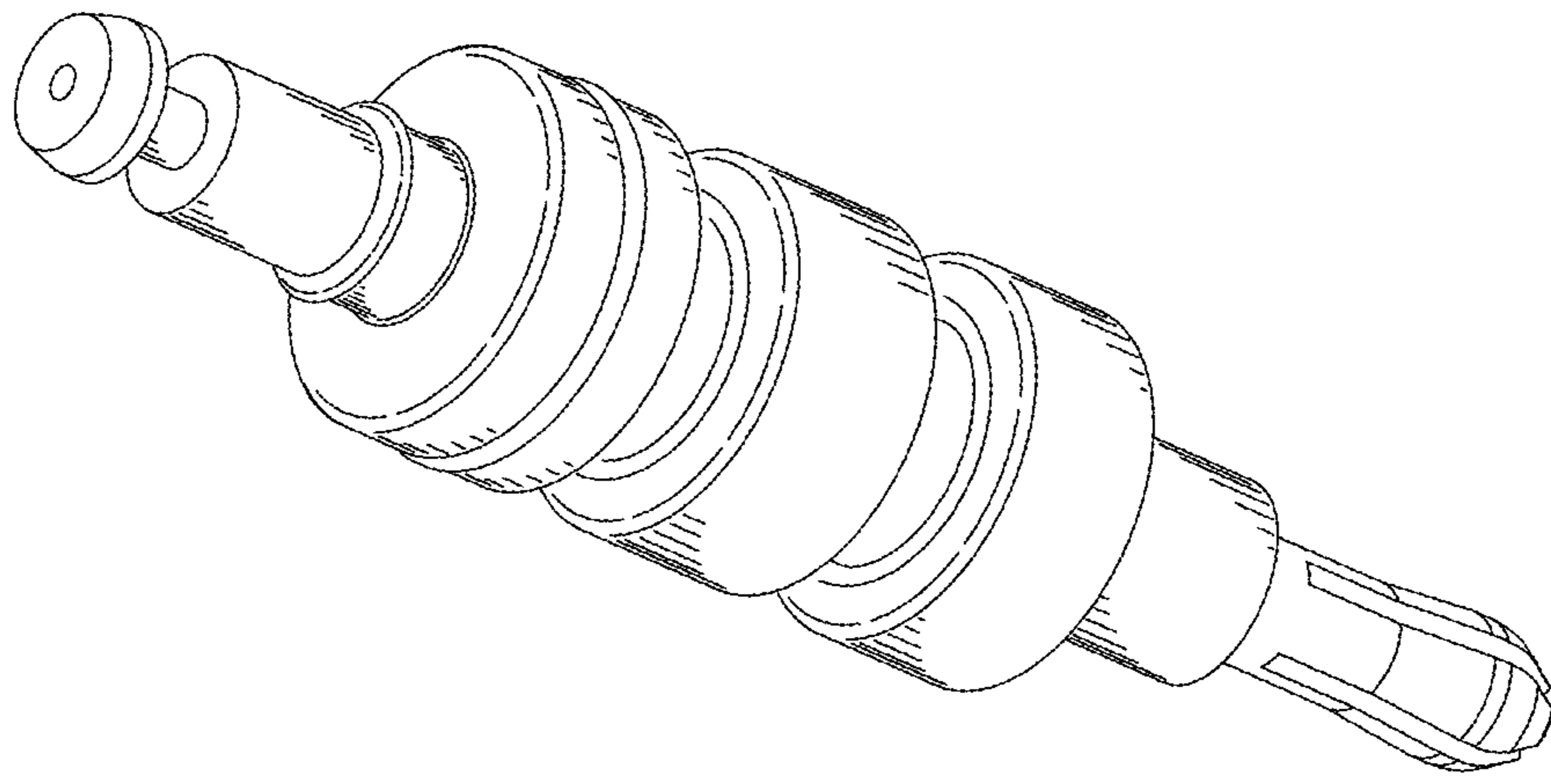


FIG. 9

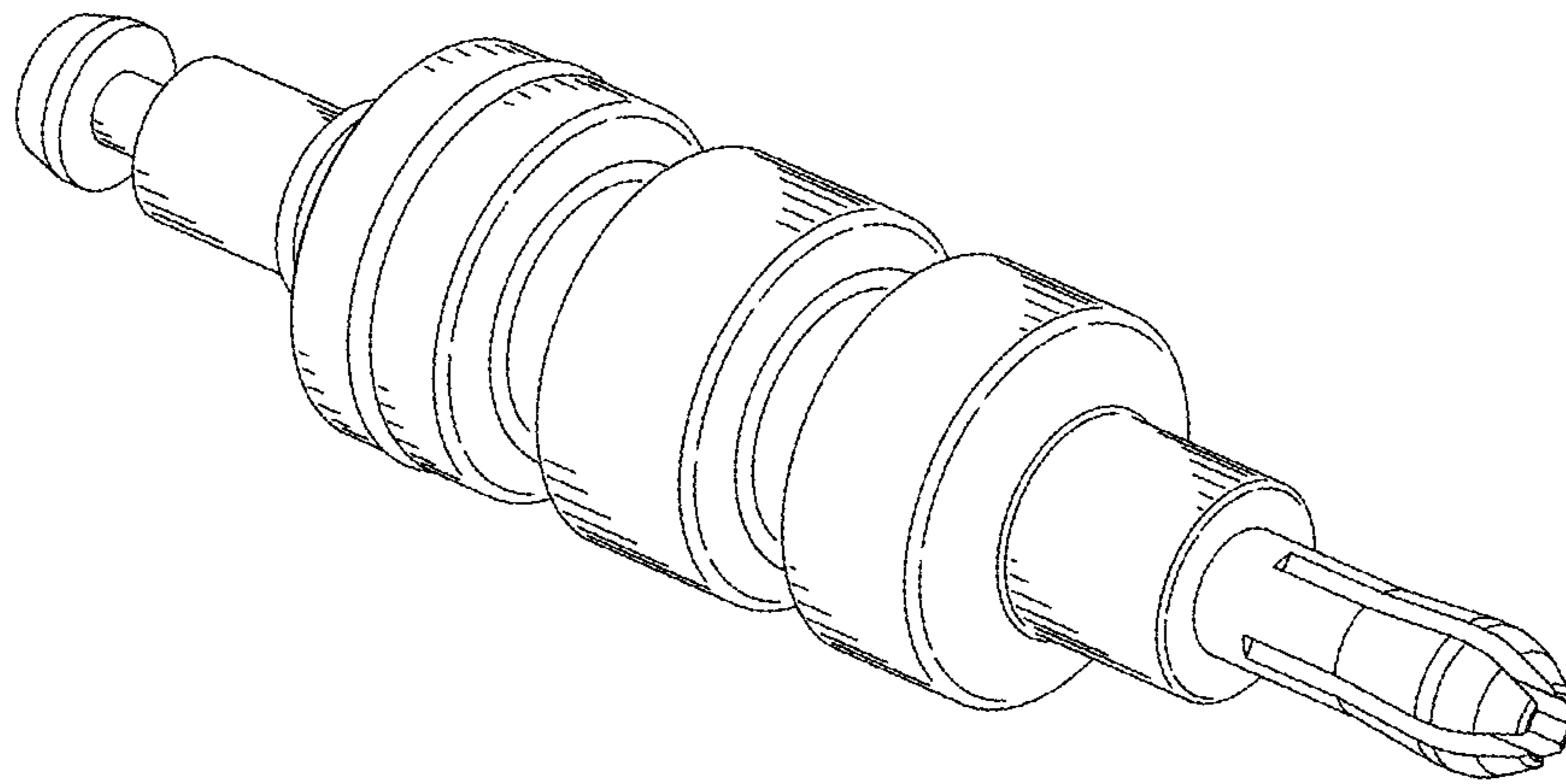


FIG. 10

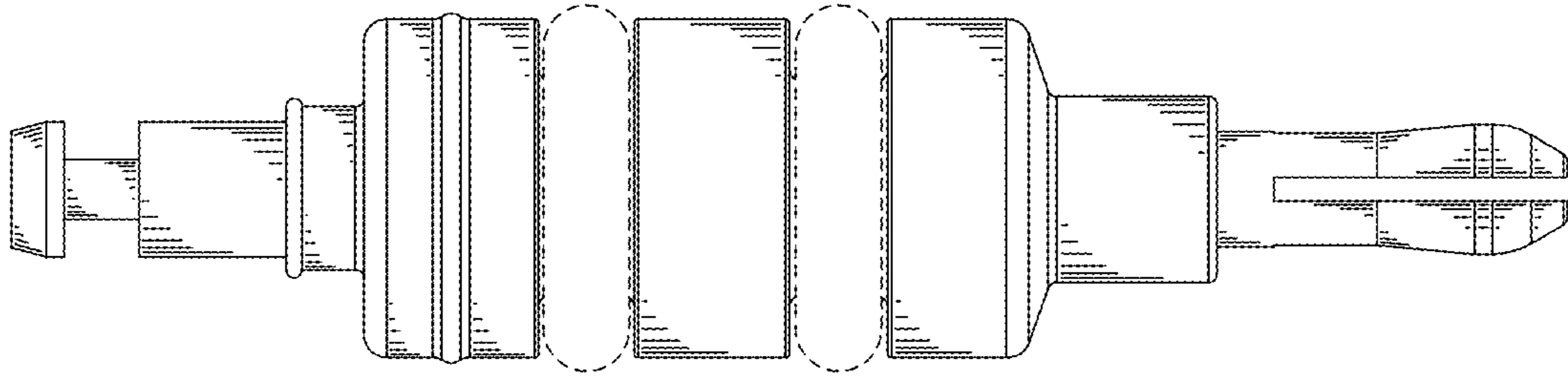


FIG. 11

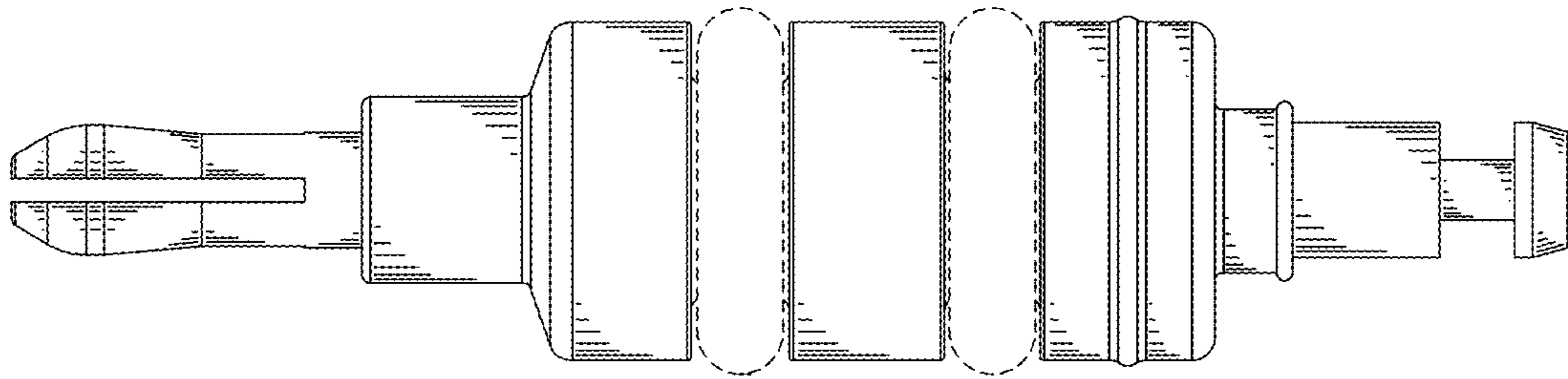


FIG. 12