

US00D402298S

United States Patent [19]
Hidaka

[11] **Patent Number:** **Des. 402,298**
[45] **Date of Patent:** ****Dec. 8, 1998**

[54] **CONTACT TIP FOR AN ARC WELDER**

[75] Inventor: **Masato Hidaka**, Kanagawa, Japan

[73] Assignee: **Kabushiki Kaisha S M K**, Kanagawa, Japan

[**] Term: **14 Years**

[21] Appl. No.: **62,729**

[22] Filed: **Nov. 22, 1996**

[30] **Foreign Application Priority Data**

May 23, 1996 [JP] Japan 8-14772

[51] **LOC (6) Cl.** **15-09**

[52] **U.S. Cl.** **D15/144**

[58] **Field of Search** D15/138, 139,
D15/144, 144.1, 144.2; 219/70, 137.44,
137.52

[56] **References Cited**

U.S. PATENT DOCUMENTS

D. 290,807 7/1987 Nippert D15/144 X

Primary Examiner—Antoine Duval Davis

Attorney, Agent, or Firm—Schwegman, Lundberg,
Woessner & Kluth, P.A.

[57] **CLAIM**

The ornamental design for a “contact tip for an arc welder”,
as shown and described.

DESCRIPTION

FIG. 1 is a front elevational view of a first embodiment of
a contact tip for an arc welding showing the applicant’s new
design;

FIG. 2 is a rear elevational view thereof;

FIG. 3 is a top plan view thereof;

FIG. 4 is a bottom plan view thereof;

FIG. 5 is a left side elevational view thereof;

FIG. 6 is a right side elevational view thereof;

FIG. 7 is a longitudinal sectional view along the line 1—1
in FIG. 3;

FIG. 8 is a front perspective view thereof;

FIG. 9 is a similar view in FIG. 8 but further showing by an
imaginary line a first type of an adapter into which the leg
portion of the contact tip is screw-fitted;

FIG. 10 is a similar view of FIG. 9 but showing by an
imaginary line a second type of the adapter;

FIG. 11 is a front elevational view of a second embodiment
of a contact tip for an arc welding showing the applicant’s
new design;

FIG. 12 is a rear elevational view thereof;

FIG. 13 is a top plan view thereof;

FIG. 14 is a bottom plan view thereof;

FIG. 15 is a left side elevational view thereof;

FIG. 16 is a right side elevational view thereof;

FIG. 17 is a longitudinal sectional view along the line 2—2
in FIG. 13;

FIG. 18 is a perspective view showing an imaginary line of
a second type of the adapter;

FIG. 19 is a front elevational view of a third embodiment of
a contact tip for an arc welding showing the applicant’s new
design;

FIG. 20 is a rear elevational view thereof;

FIG. 21 is a top plan view thereof;

FIG. 22 is a bottom plan view thereof;

FIG. 23 is a left side elevational view thereof;

FIG. 24 is a right side elevational view thereof;

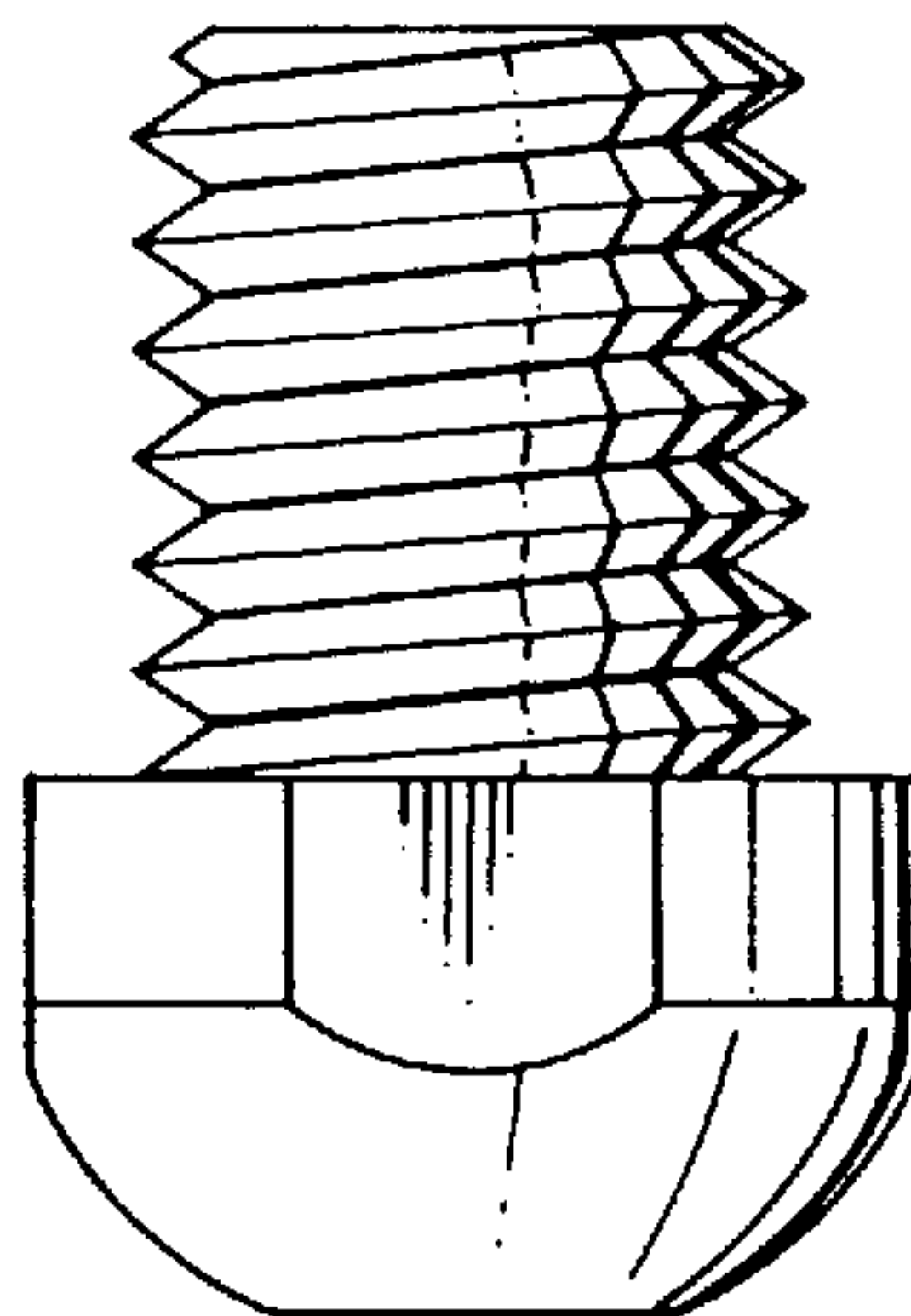
FIG. 25 is a longitudinal sectional view along the line 3—3
in FIG. 21;

FIG. 26 is a front perspective view thereof;

FIG. 27 is a similar view of FIG. 26 but further showing by
an imaginary line the first type of the adapter into which the
leg portion of the contact tip is screw-fitted; and,

FIG. 28 is a similar view of FIG. 27 but showing by an
imaginary line the second type of the adapter.

1 Claim, 8 Drawing Sheets



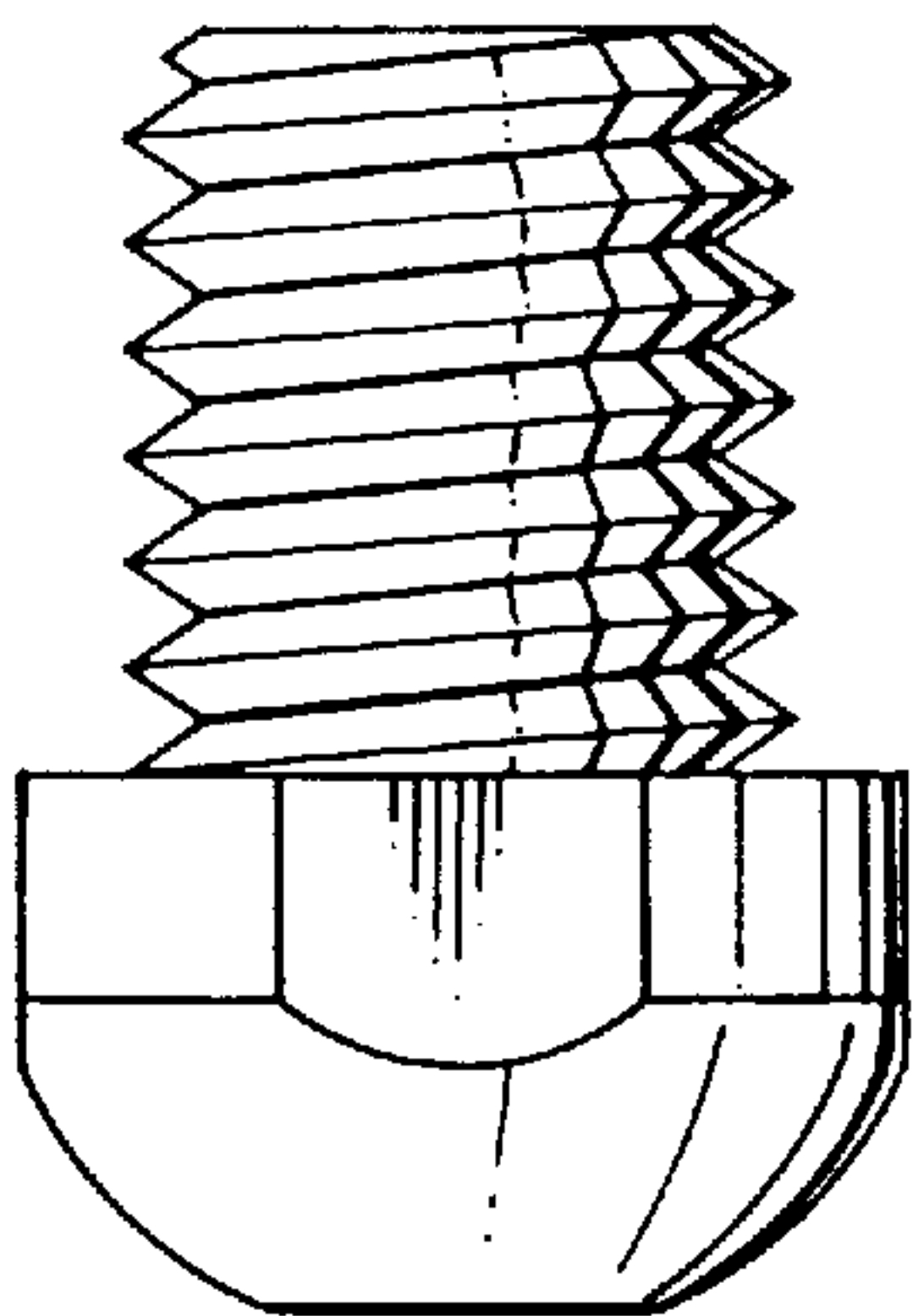


FIG. 1

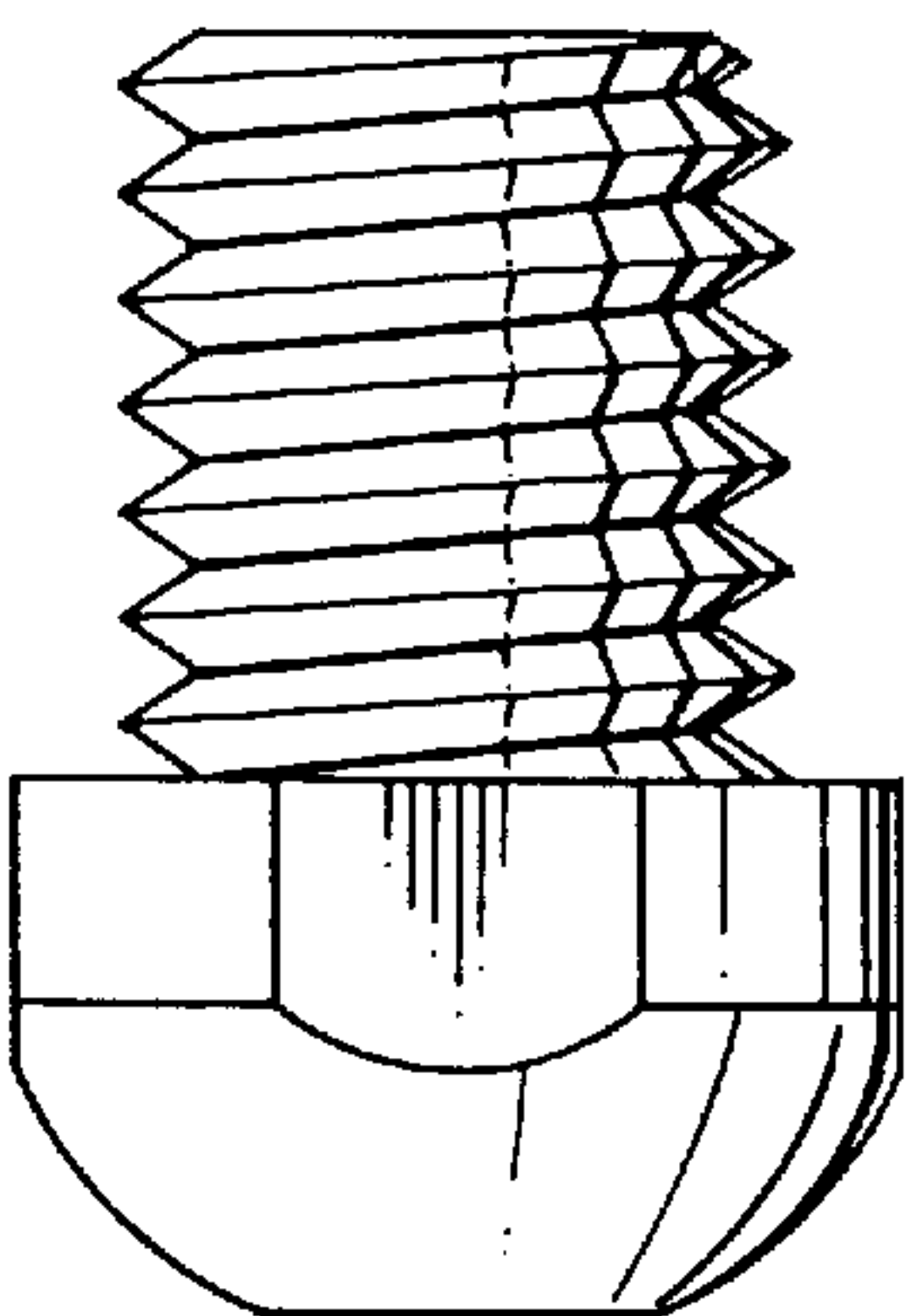


FIG. 2

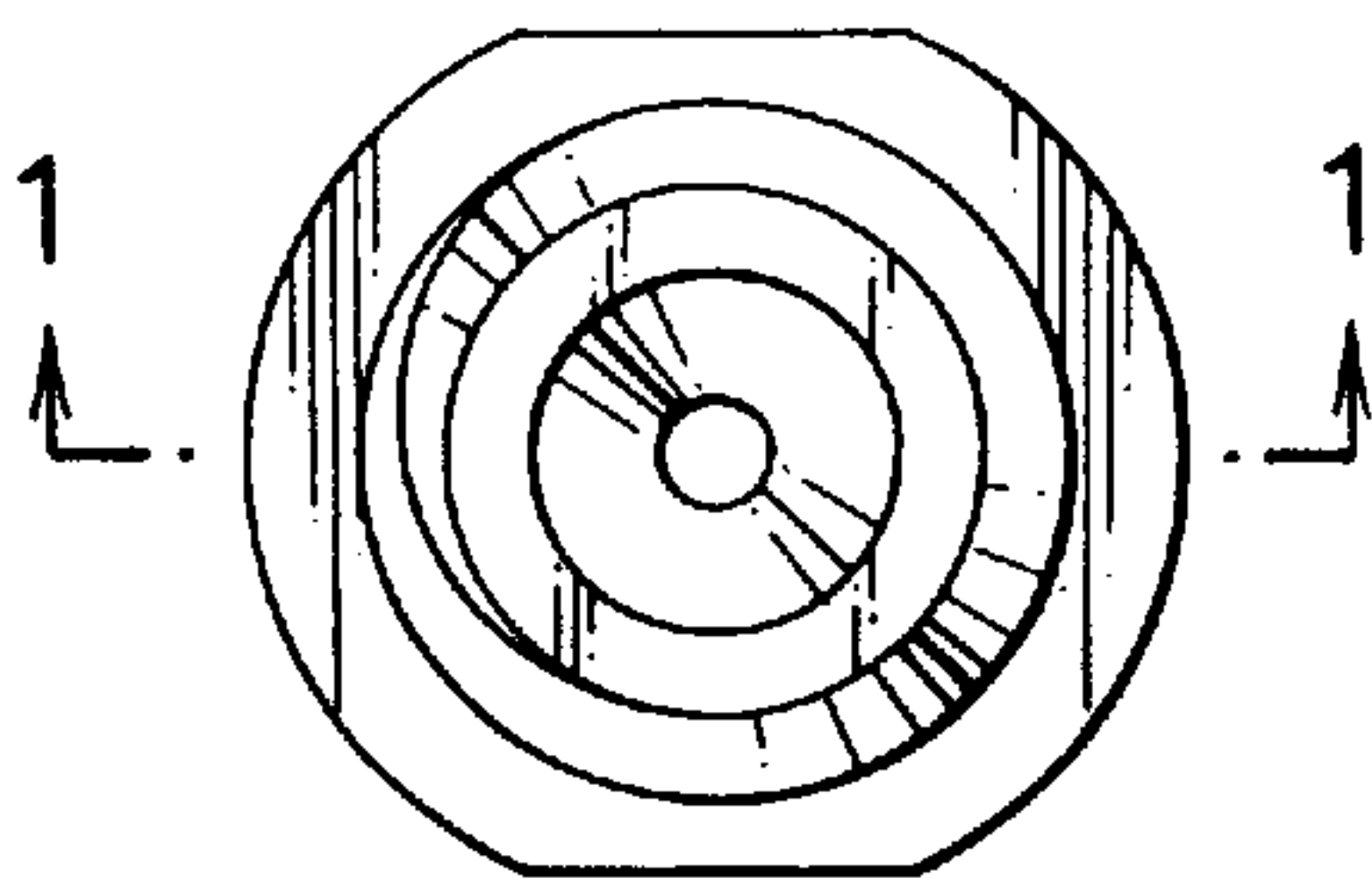


FIG. 3

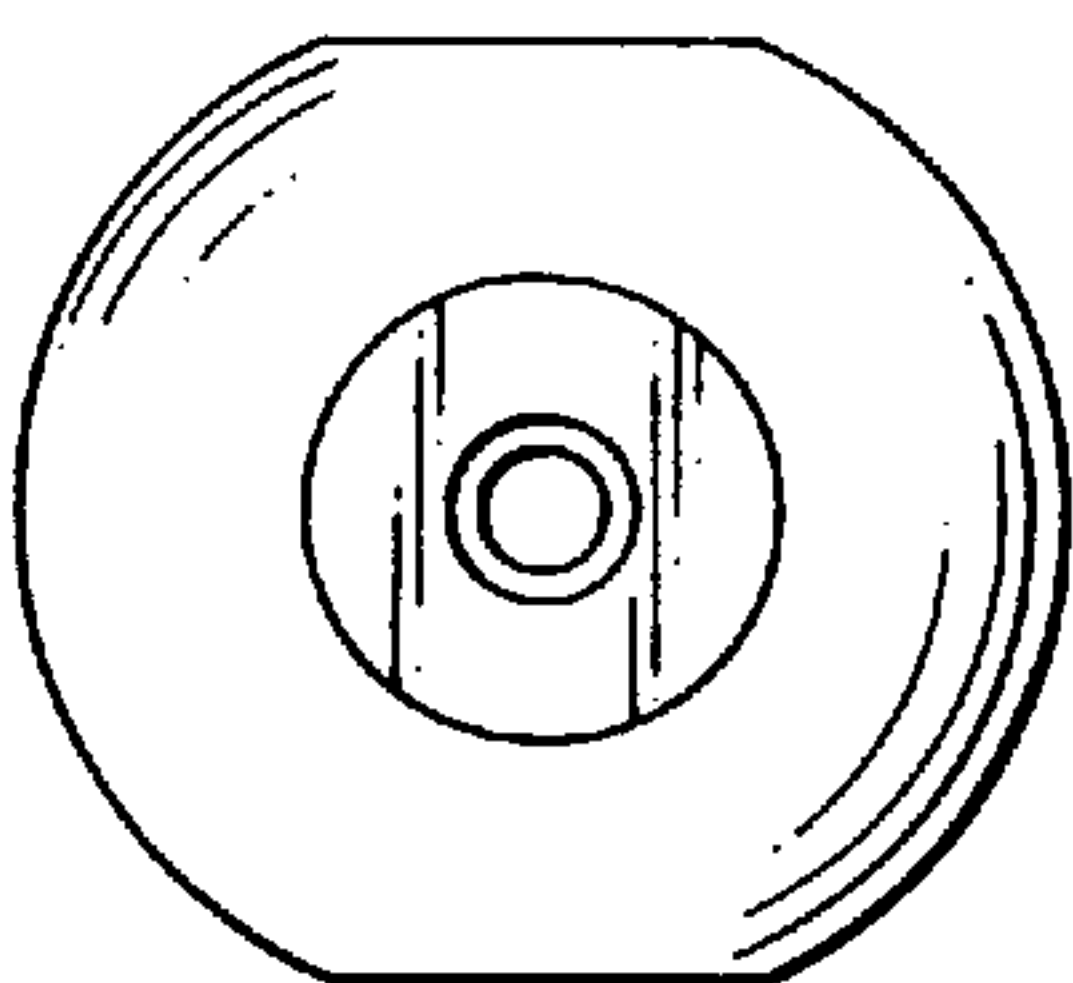


FIG. 4

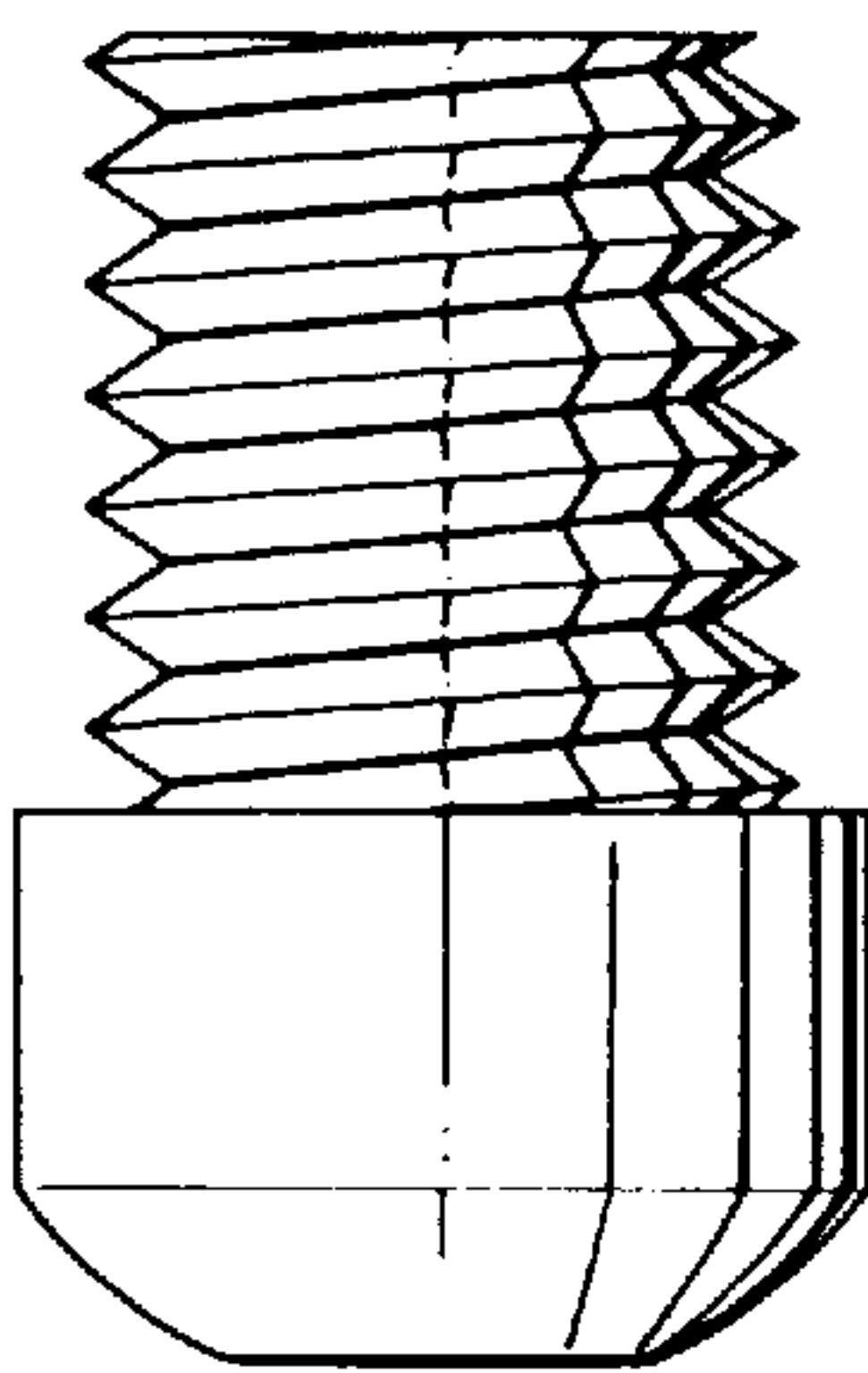


FIG. 5

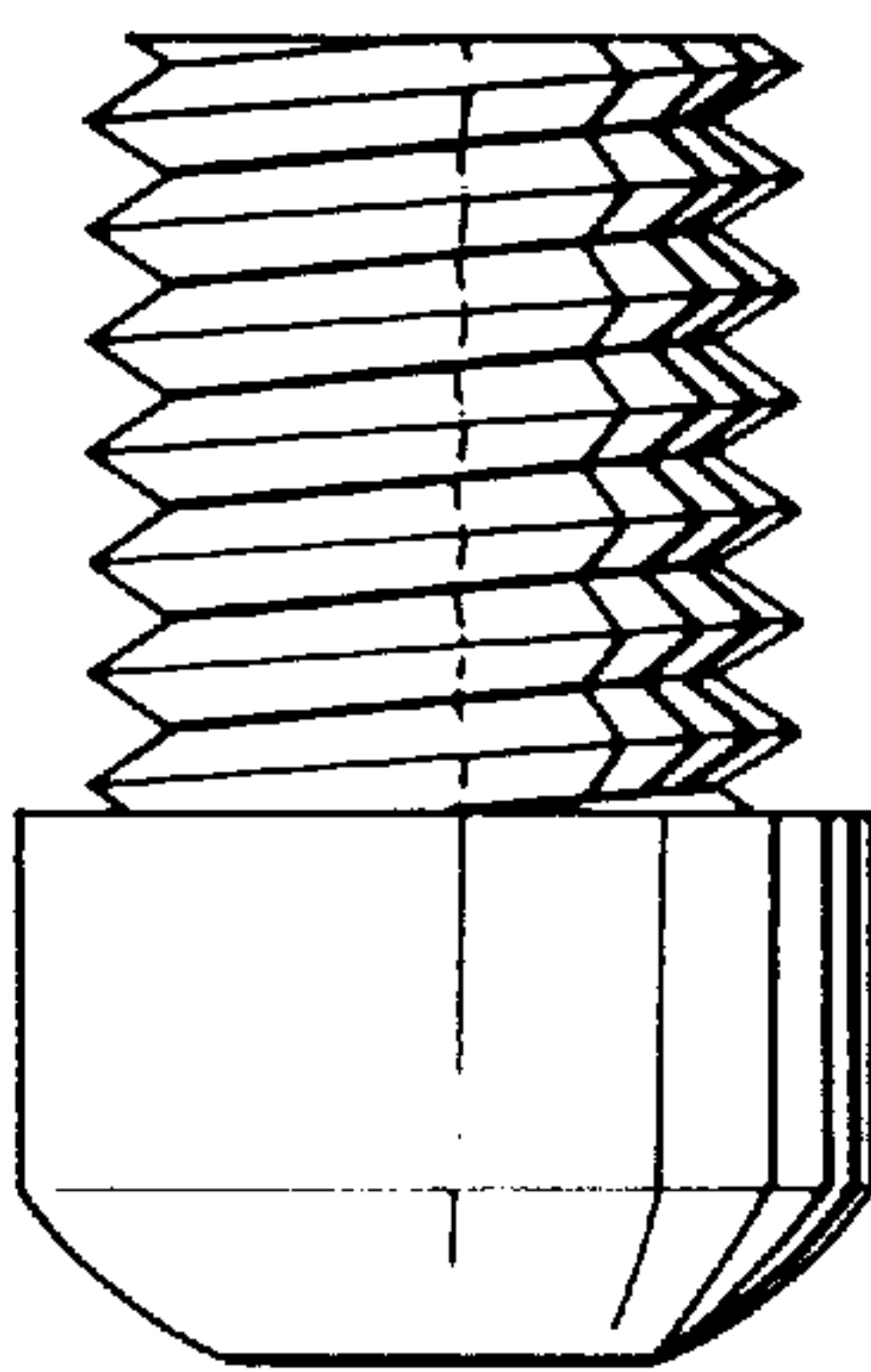


FIG. 6

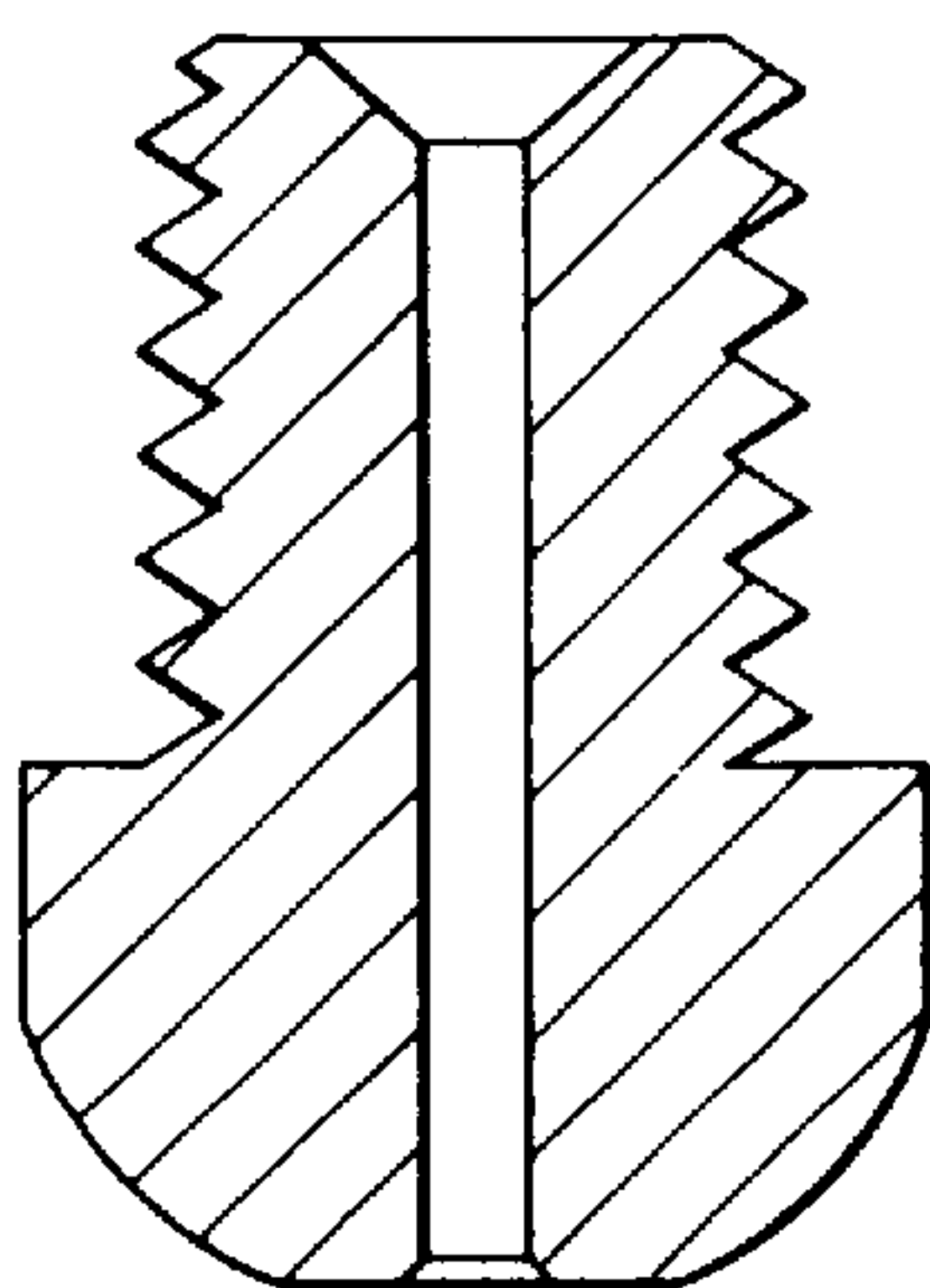


FIG. 7

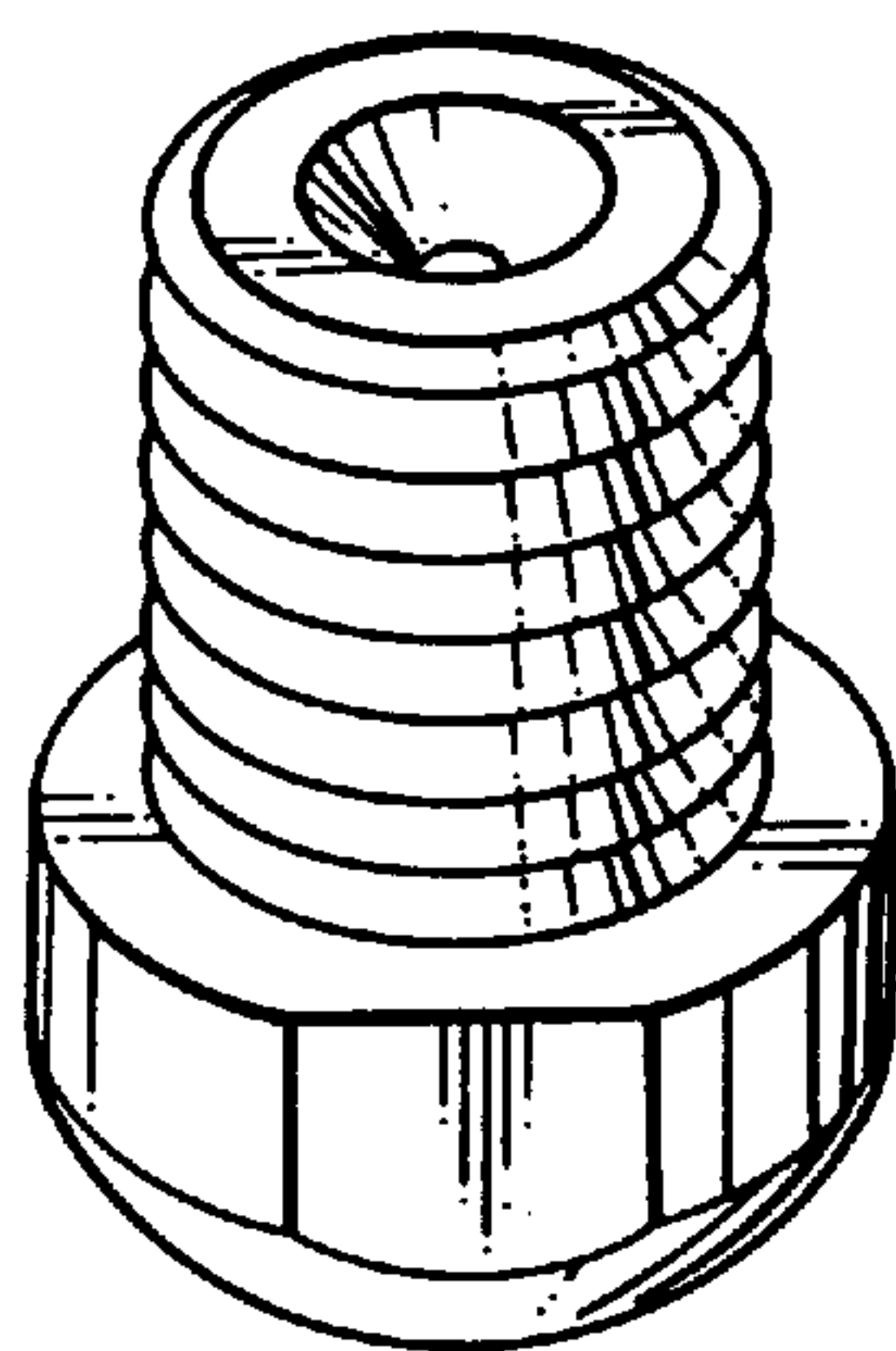


FIG. 8

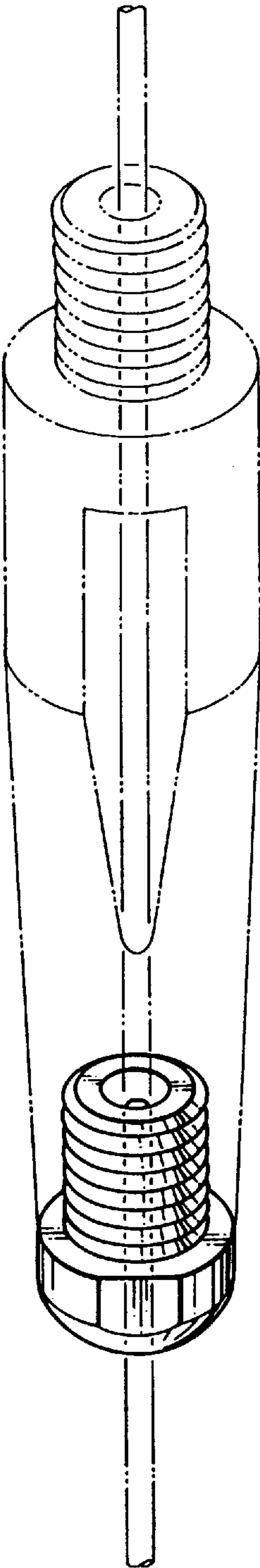


FIG. 9

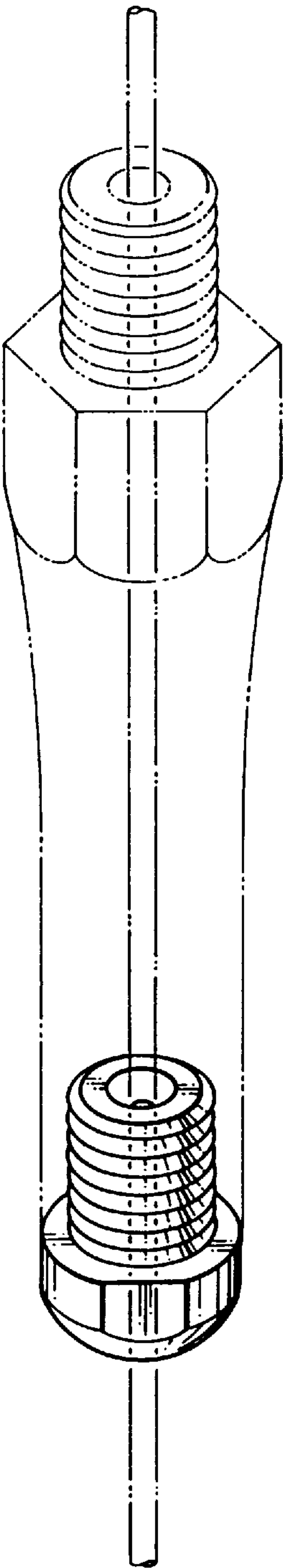


FIG. 10

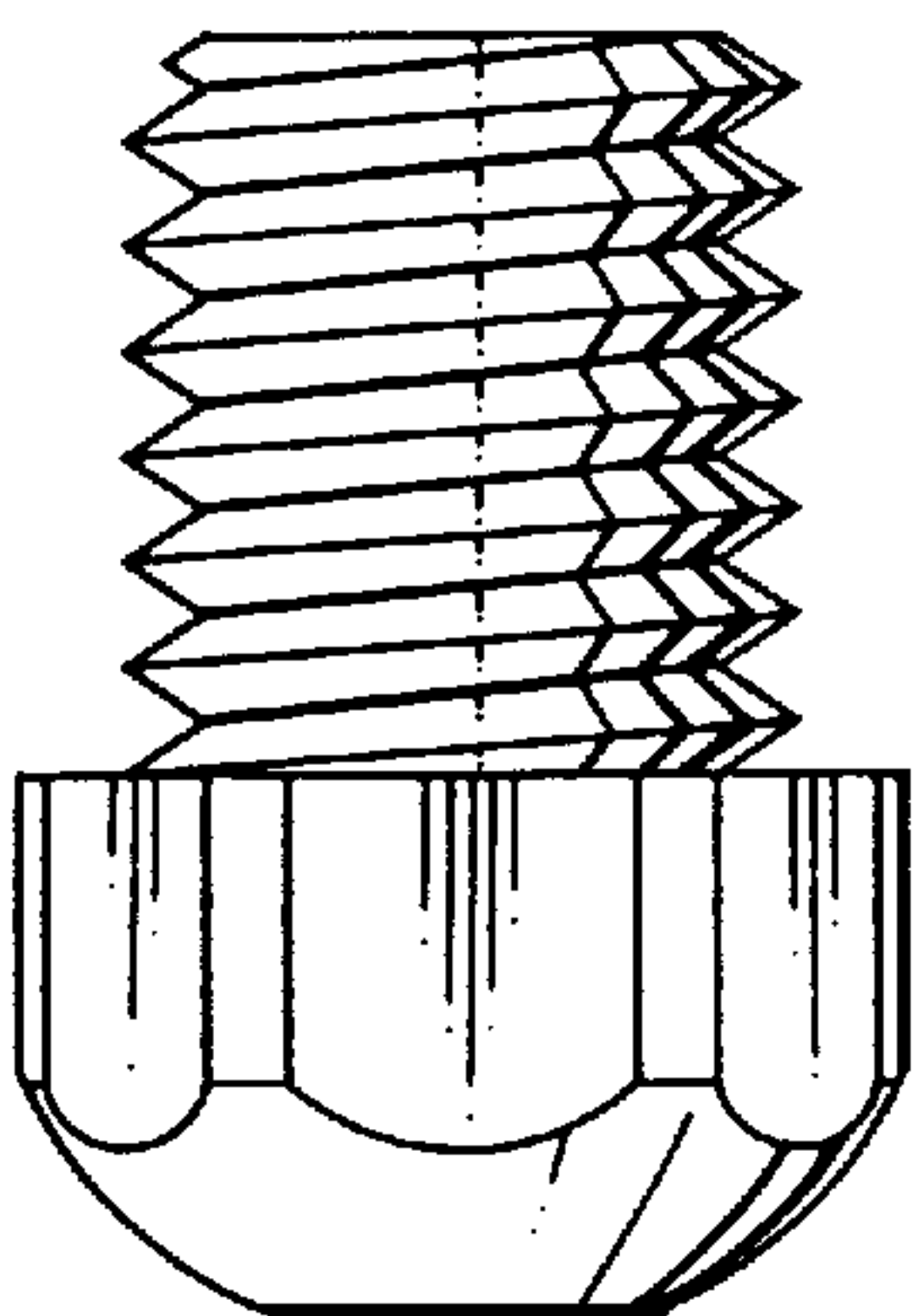


FIG. 11

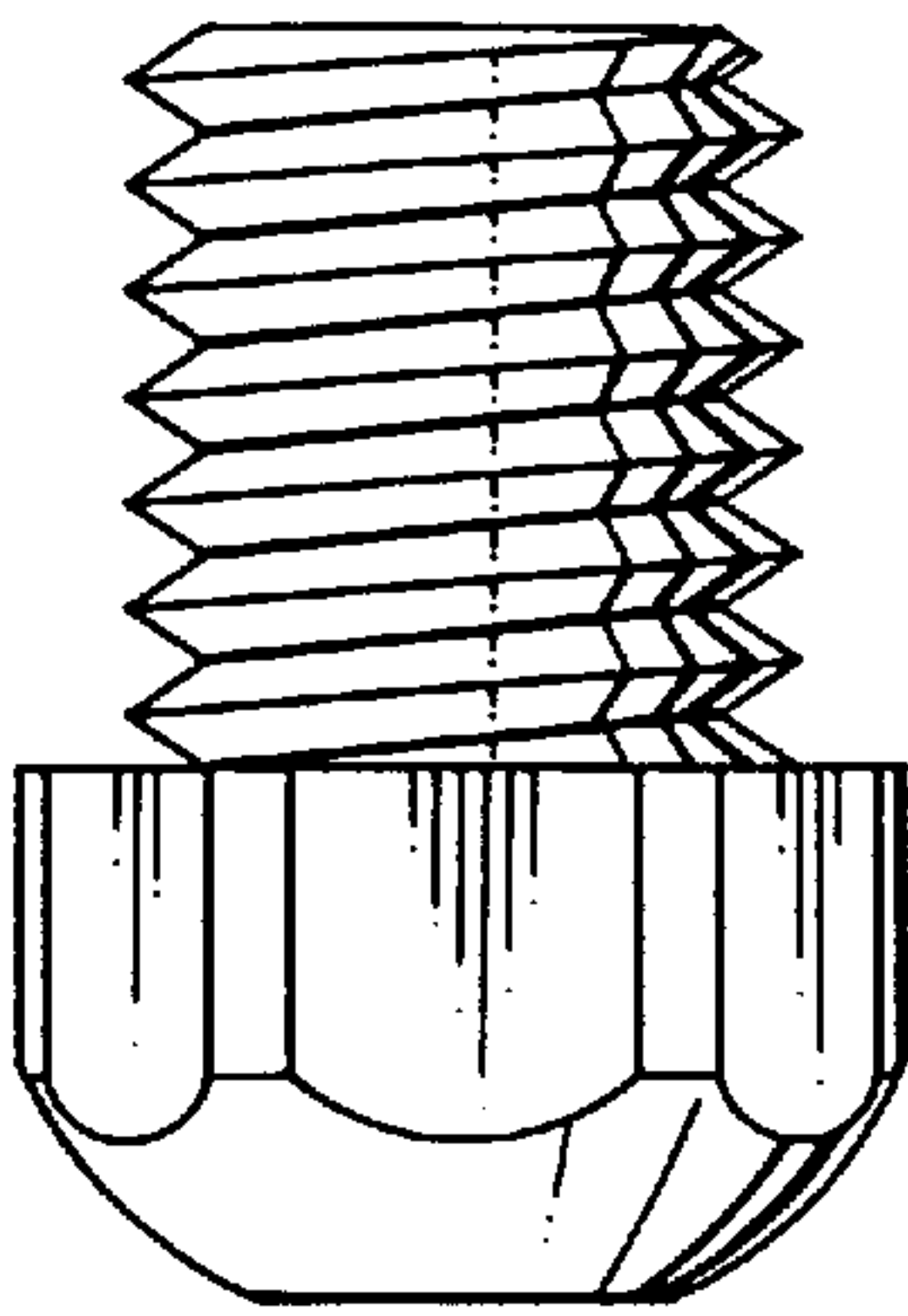


FIG. 12

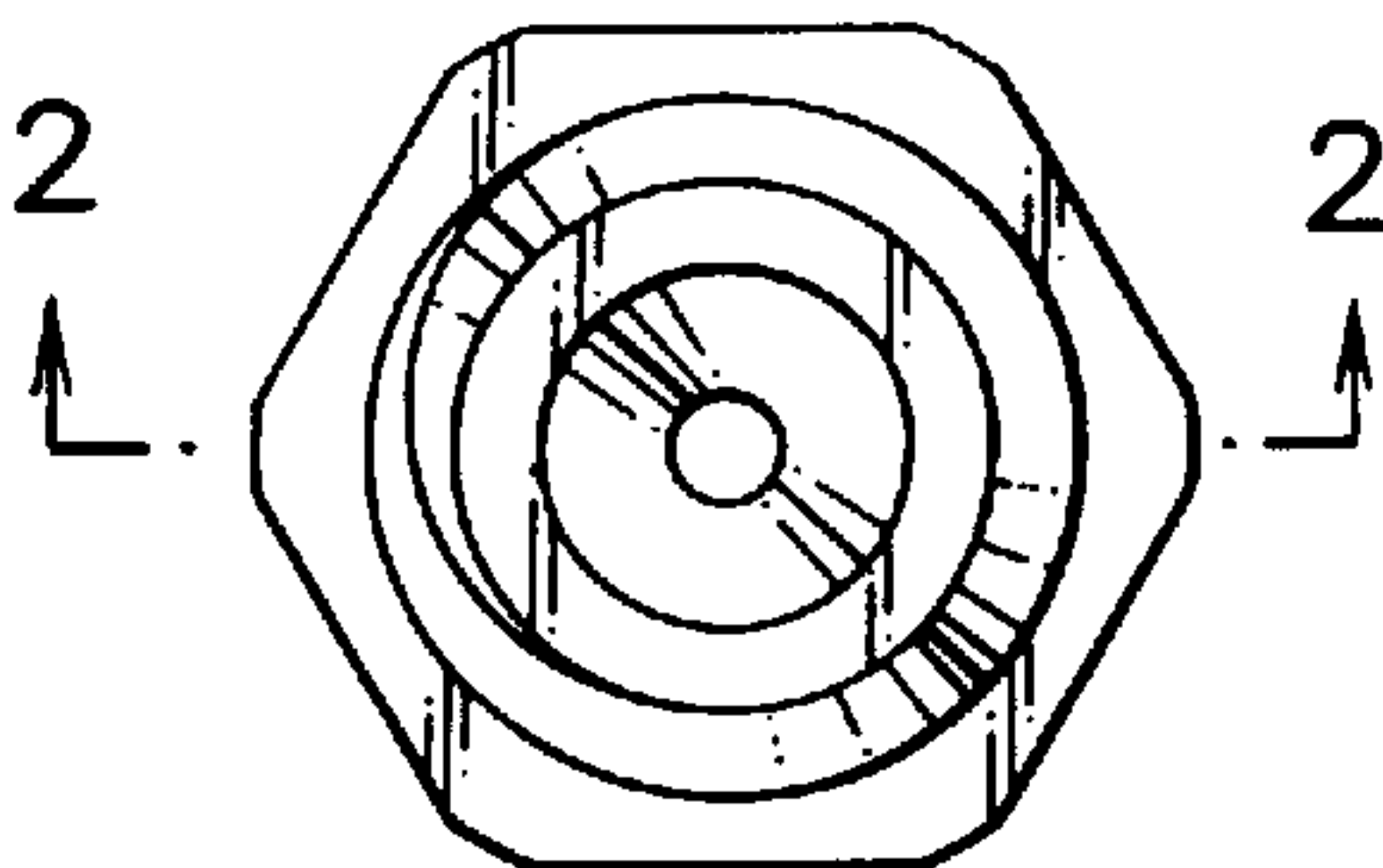


FIG. 13

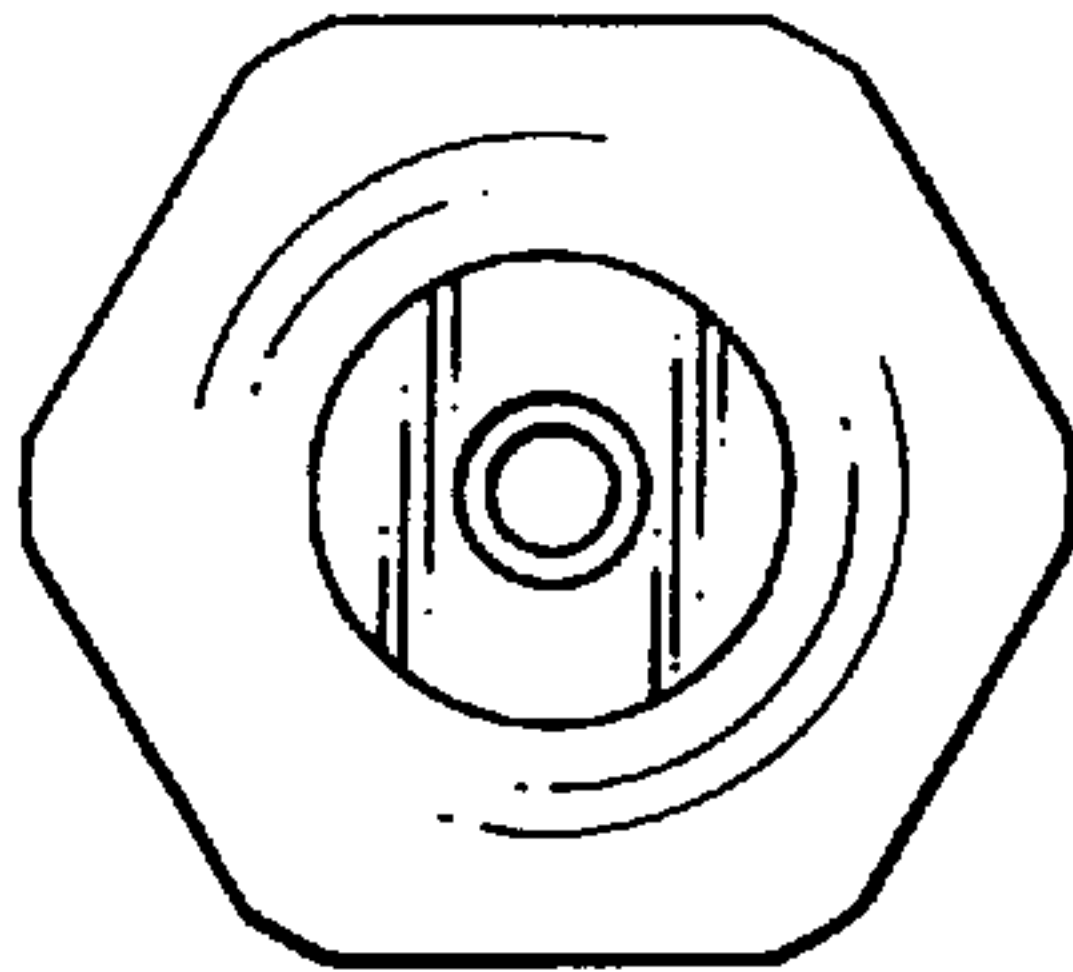


FIG. 14

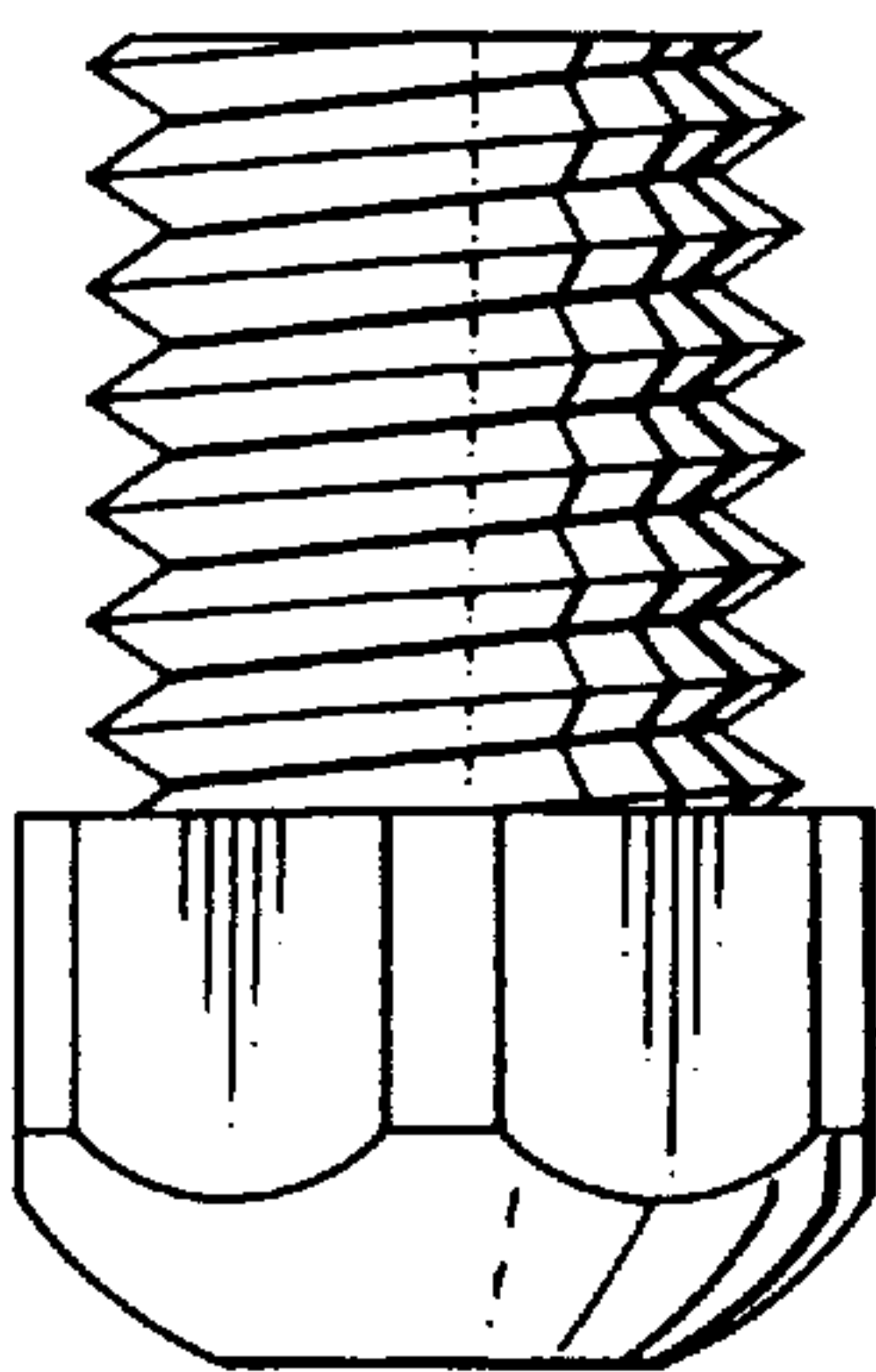


FIG. 15

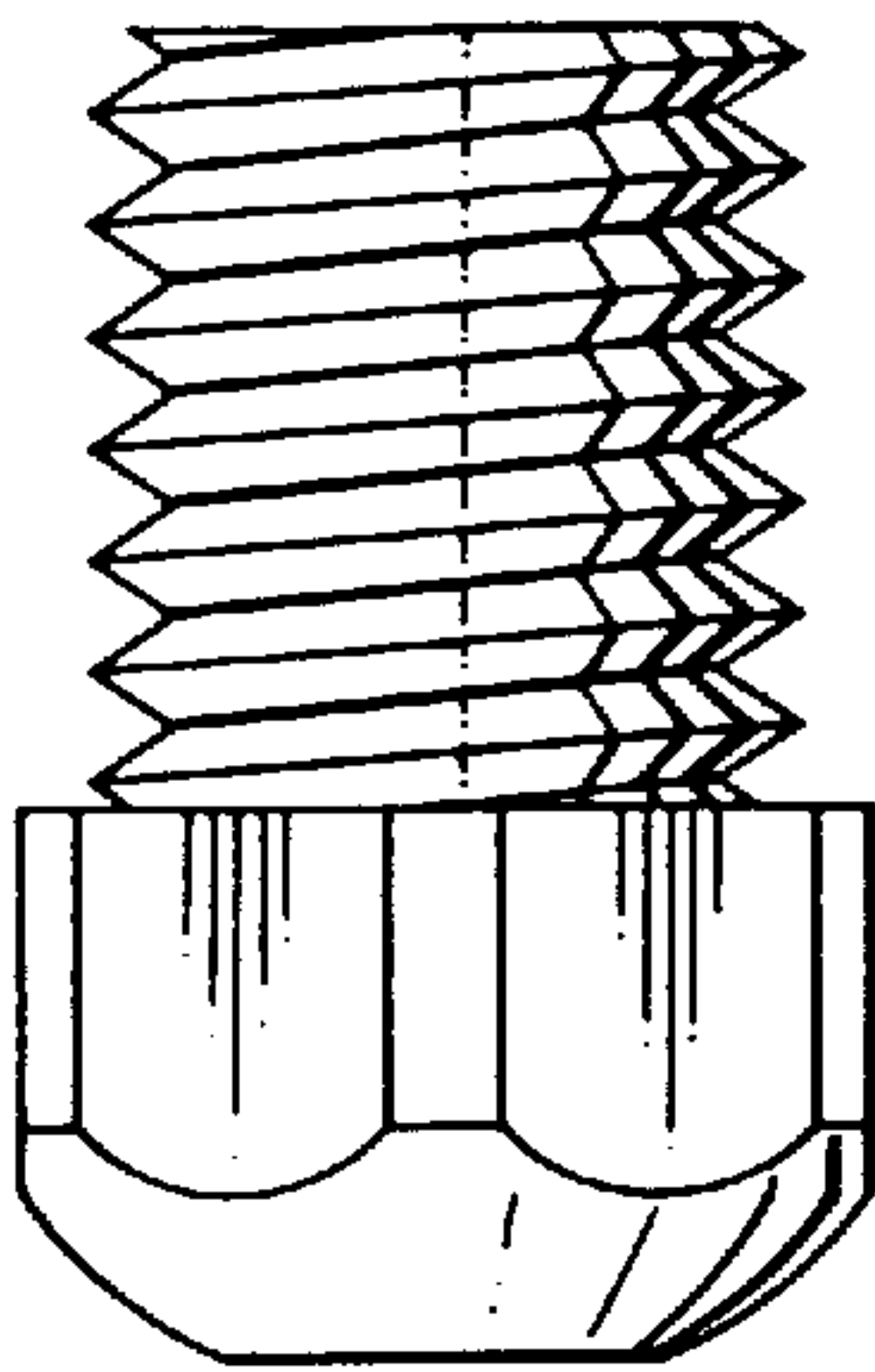


FIG. 16

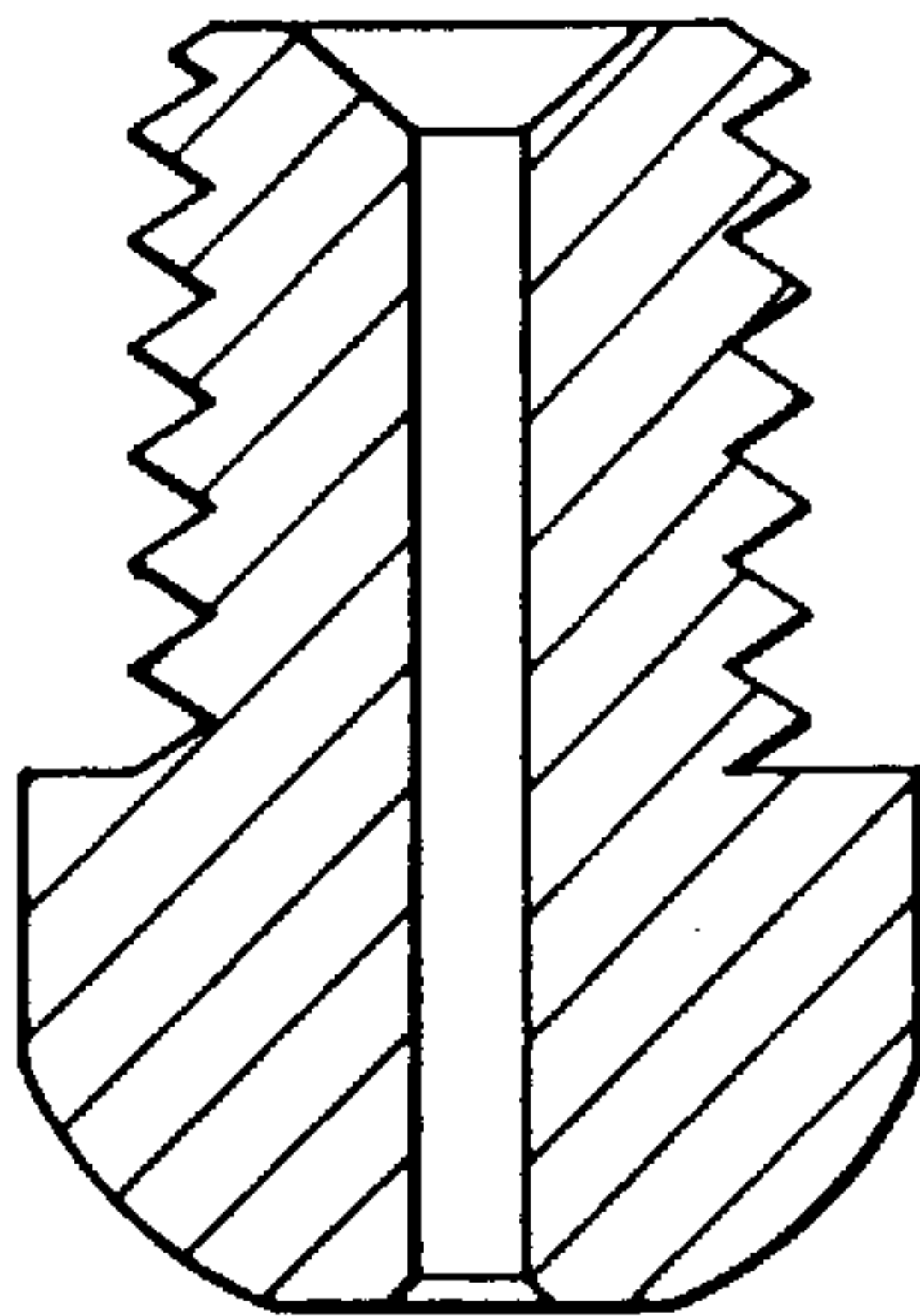


FIG. 17

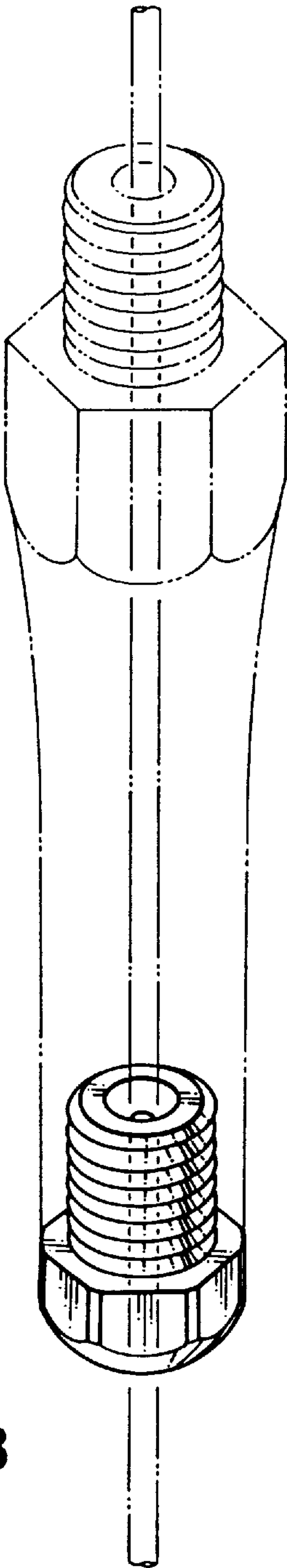


FIG. 18

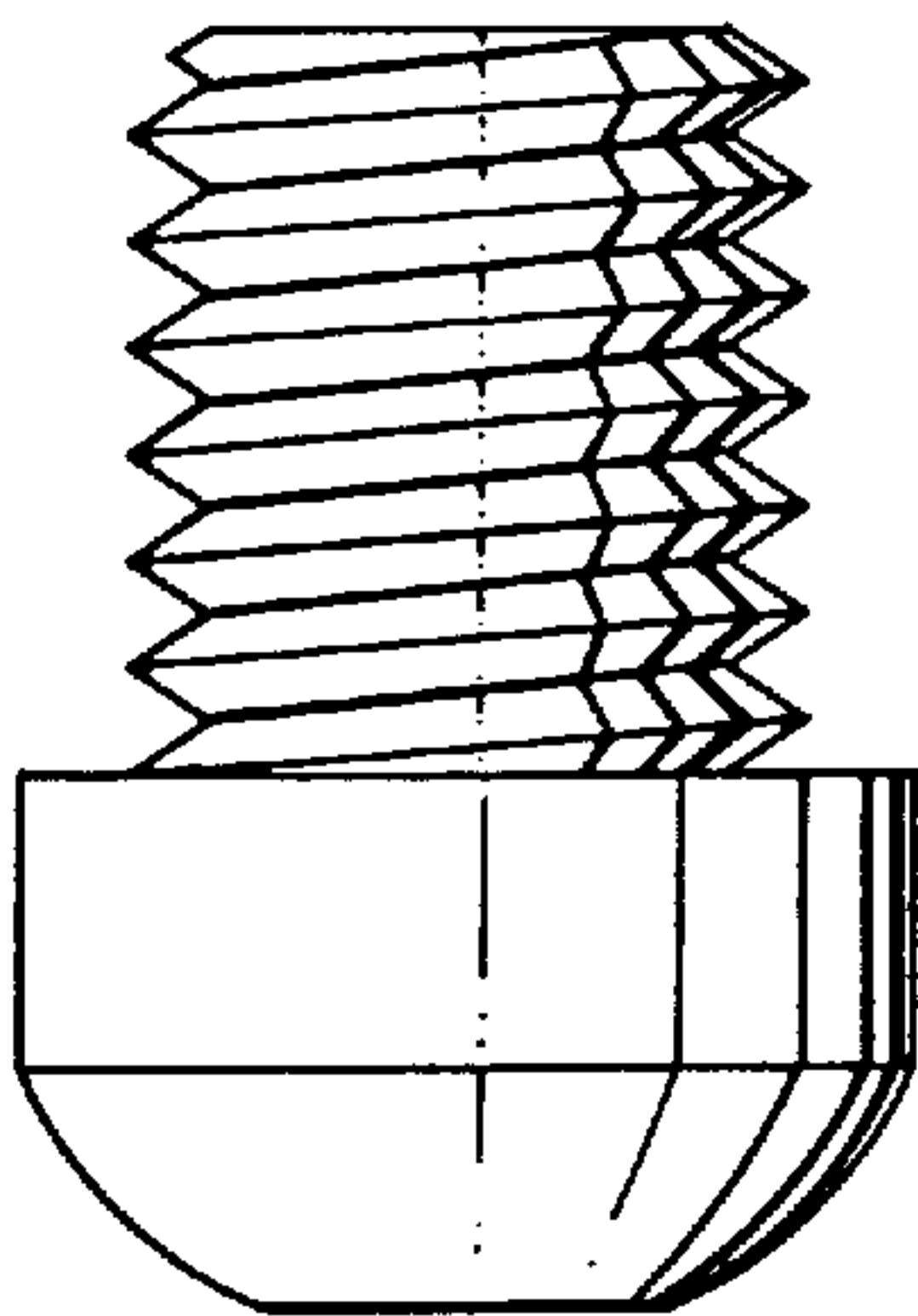


FIG. 19

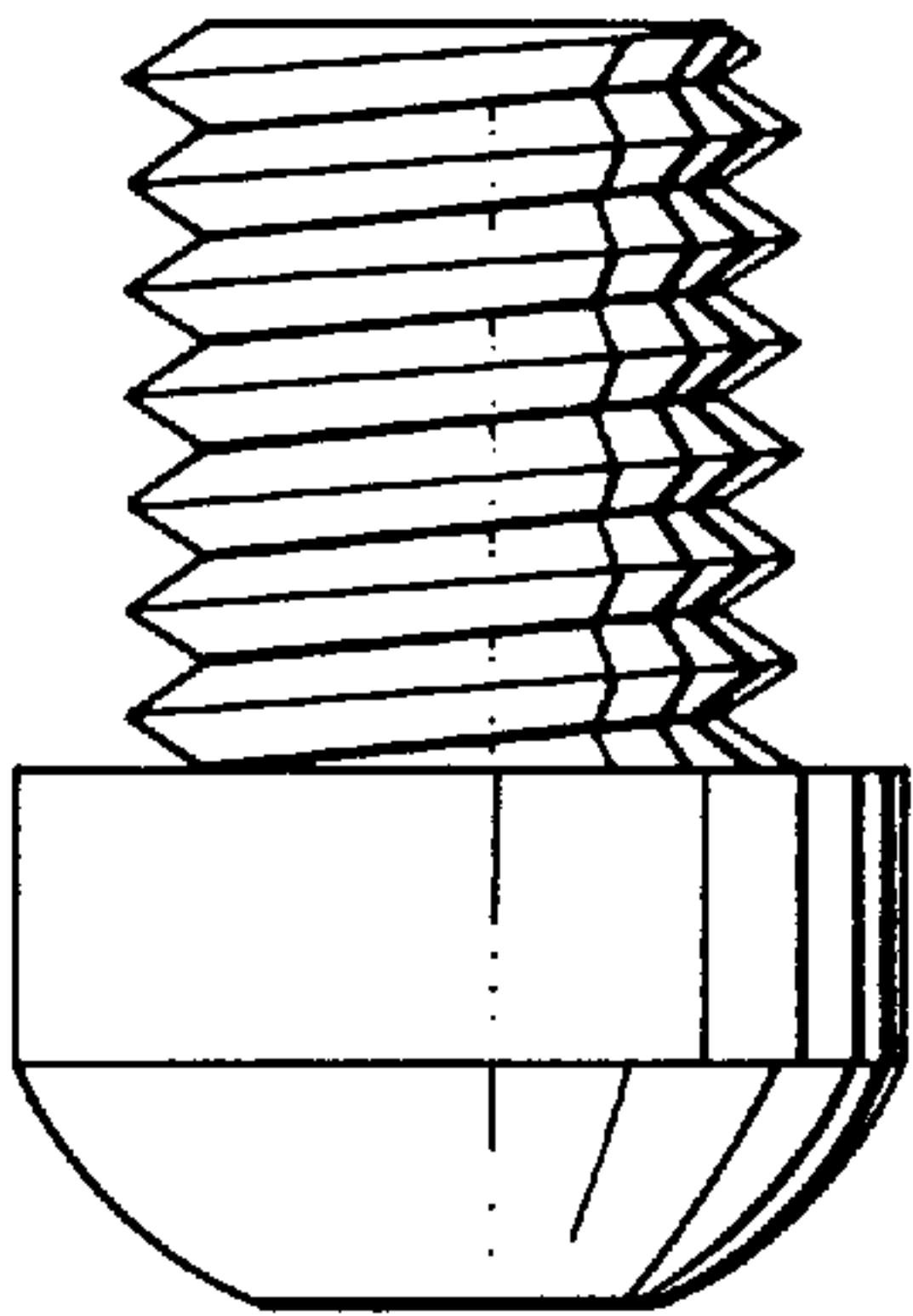


FIG. 20

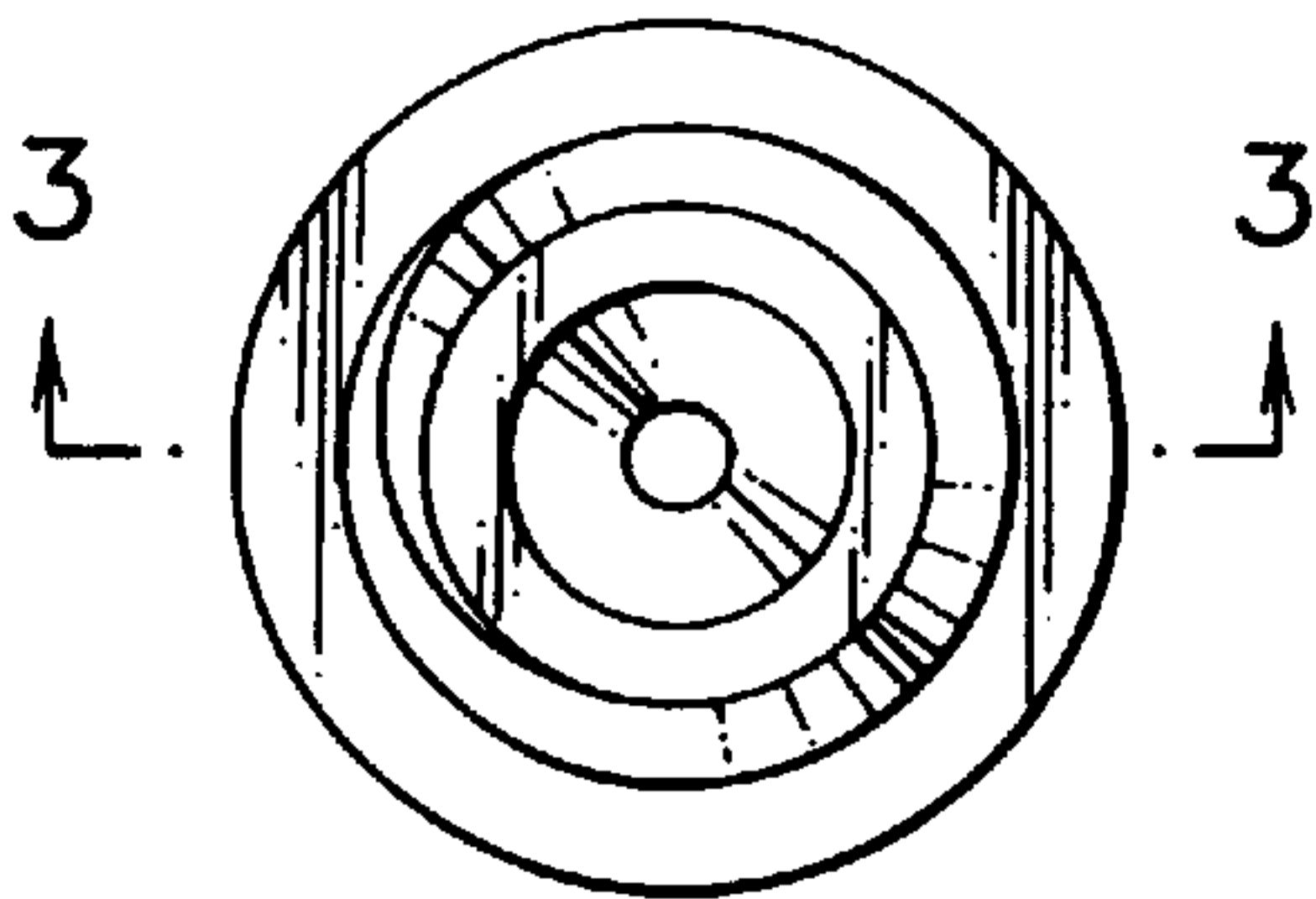


FIG. 21

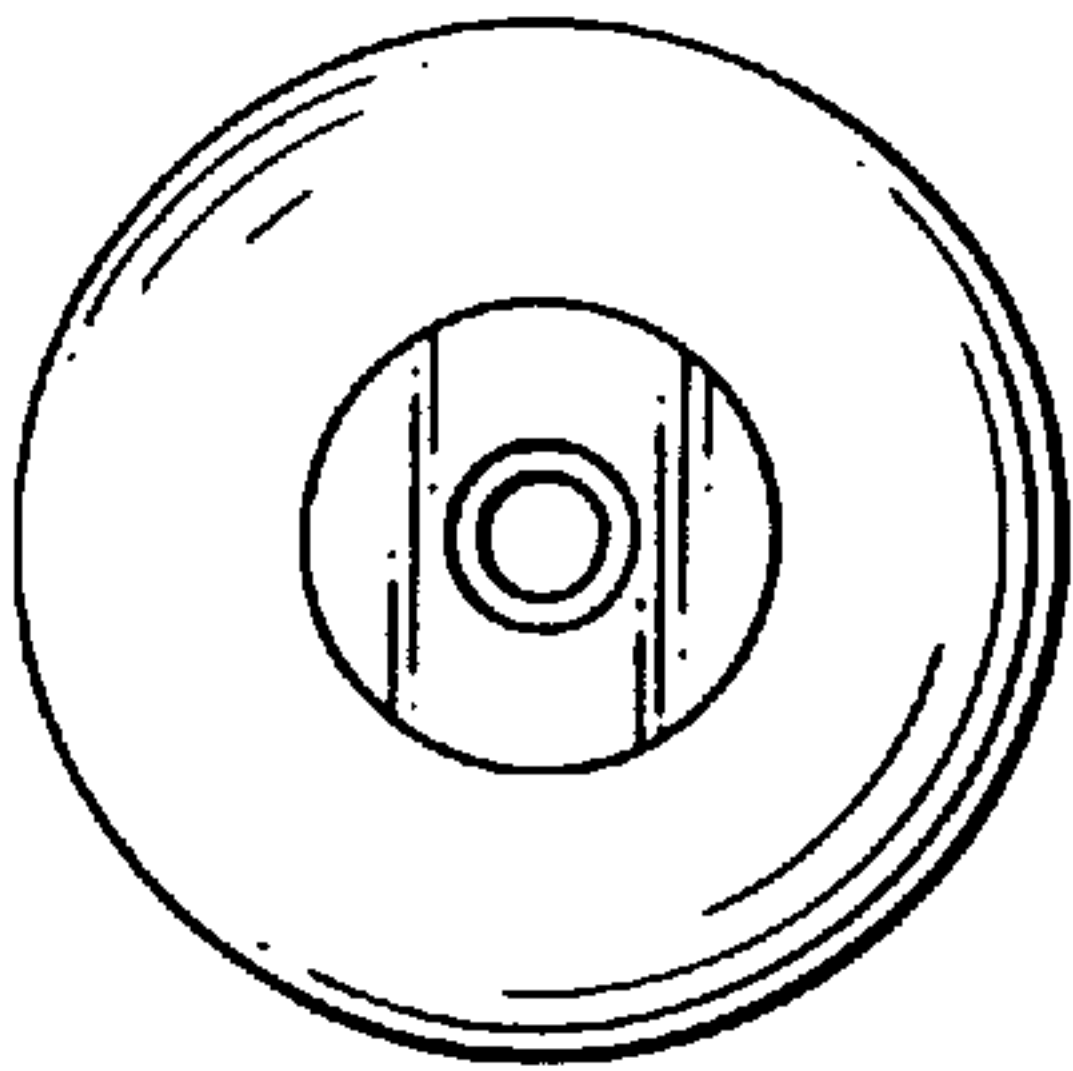


FIG. 22

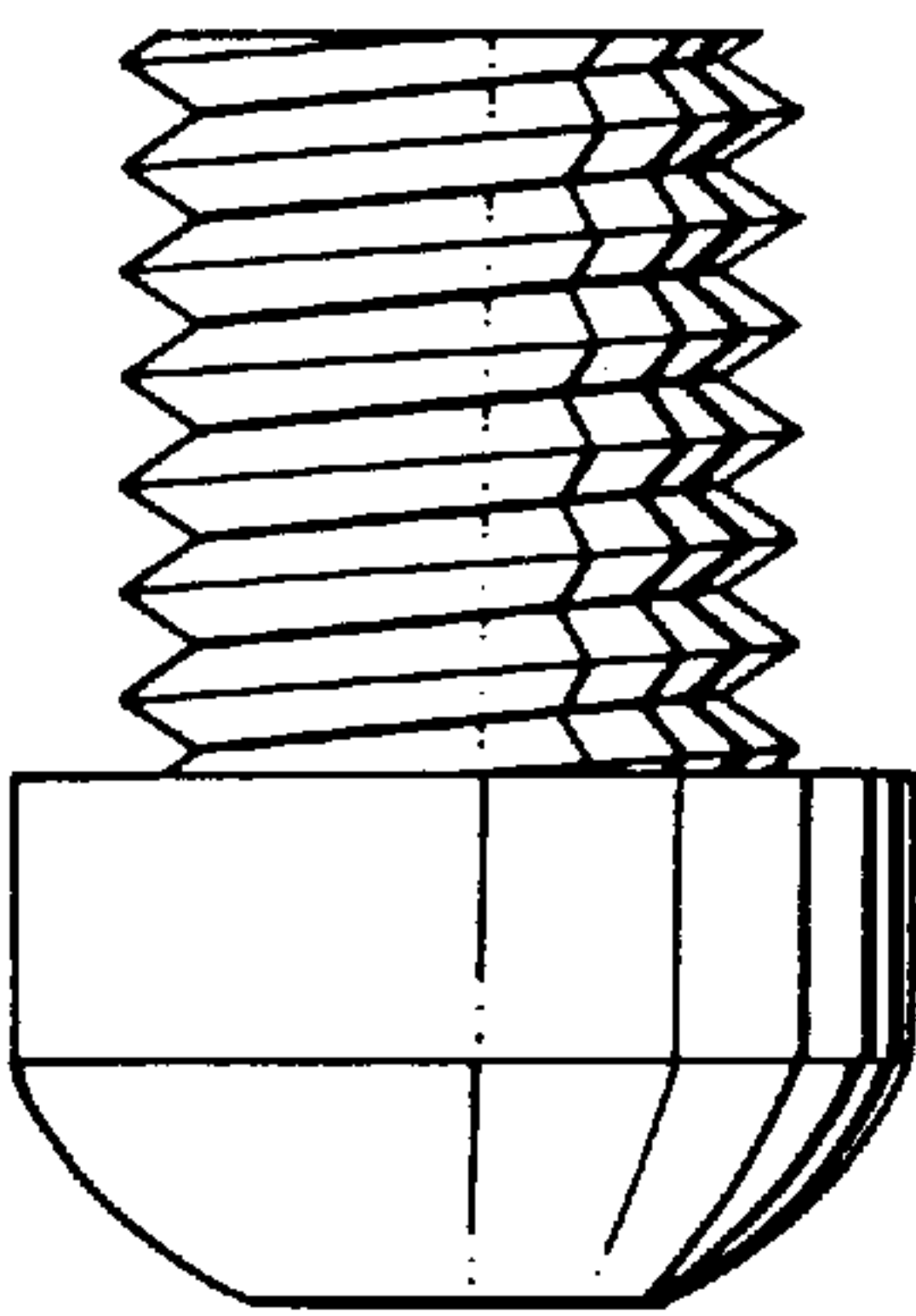


FIG. 23

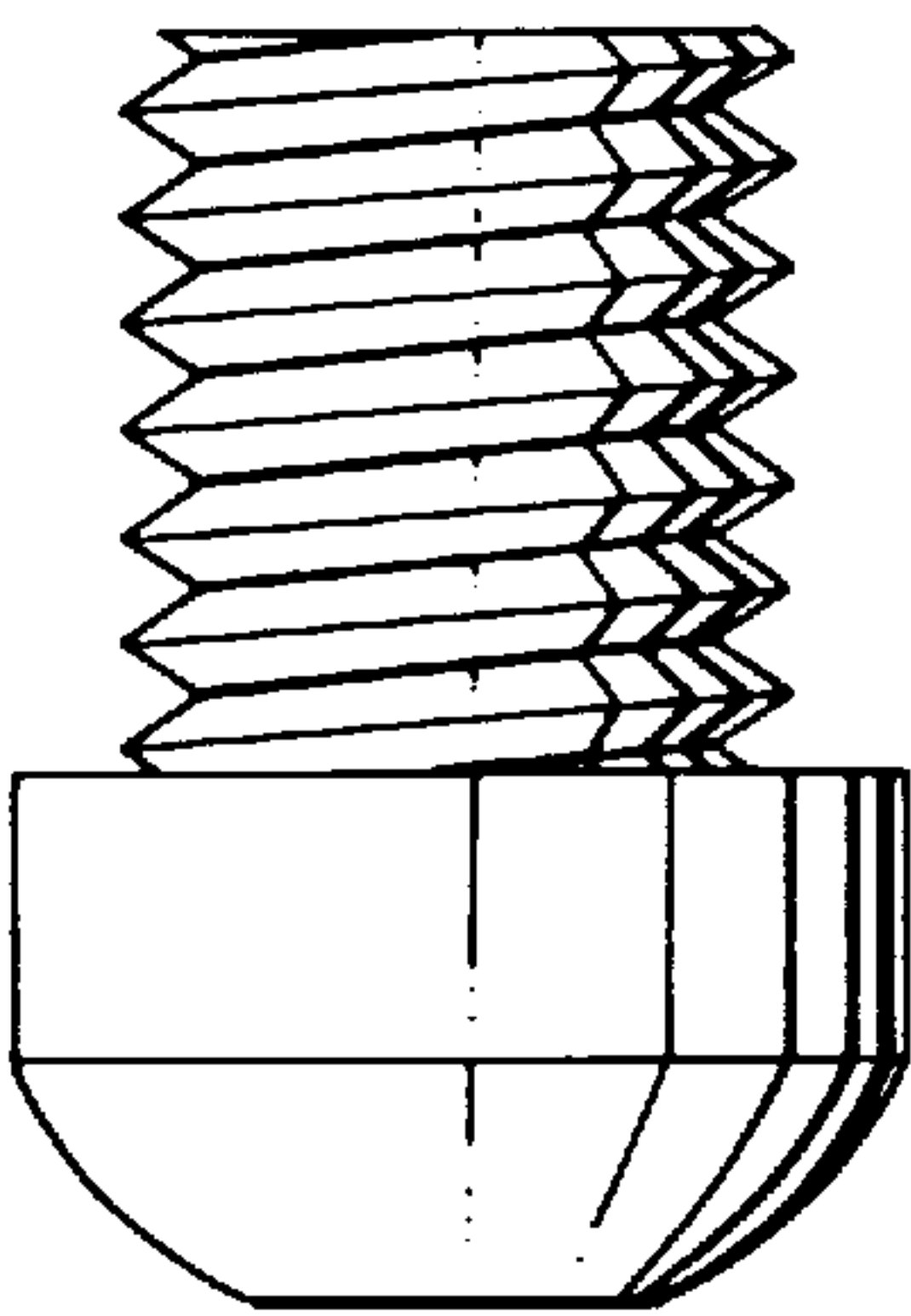


FIG. 24

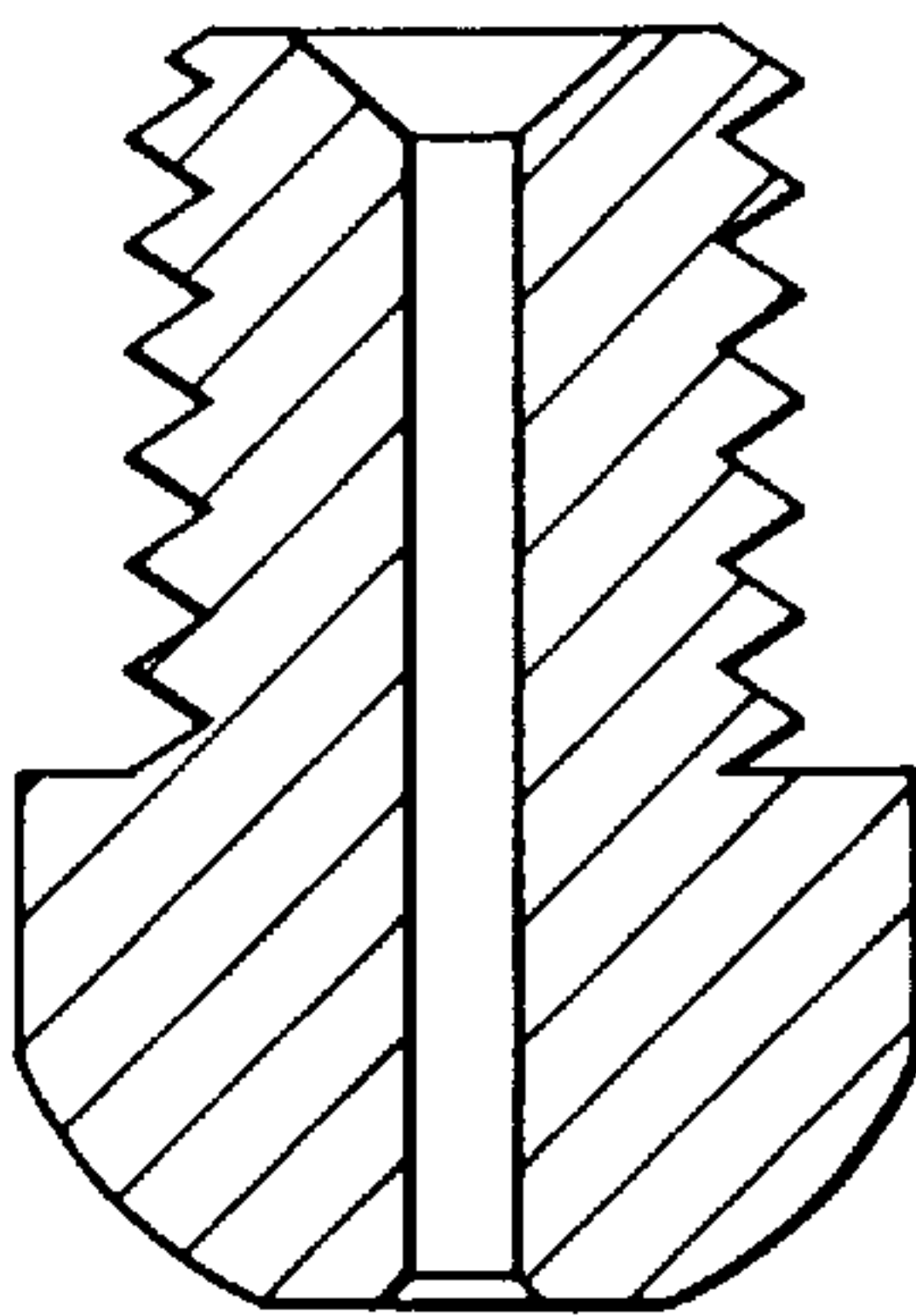


FIG. 25

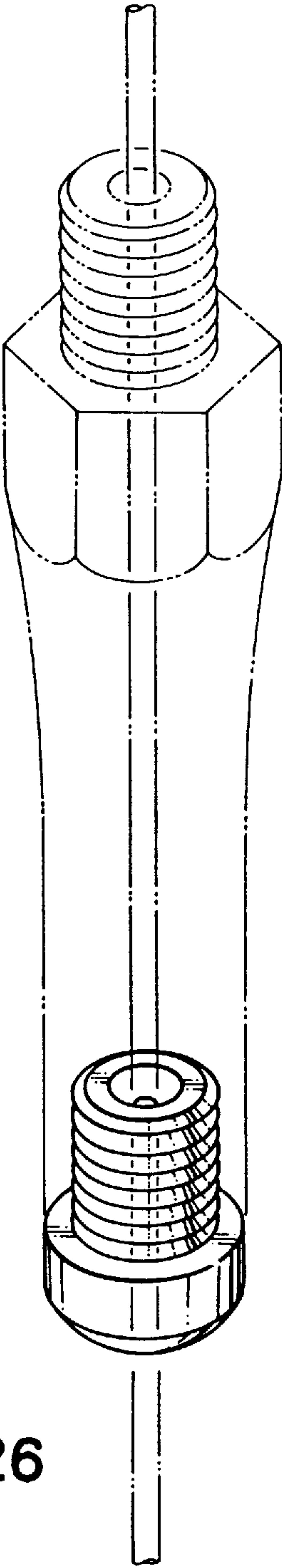


FIG. 26

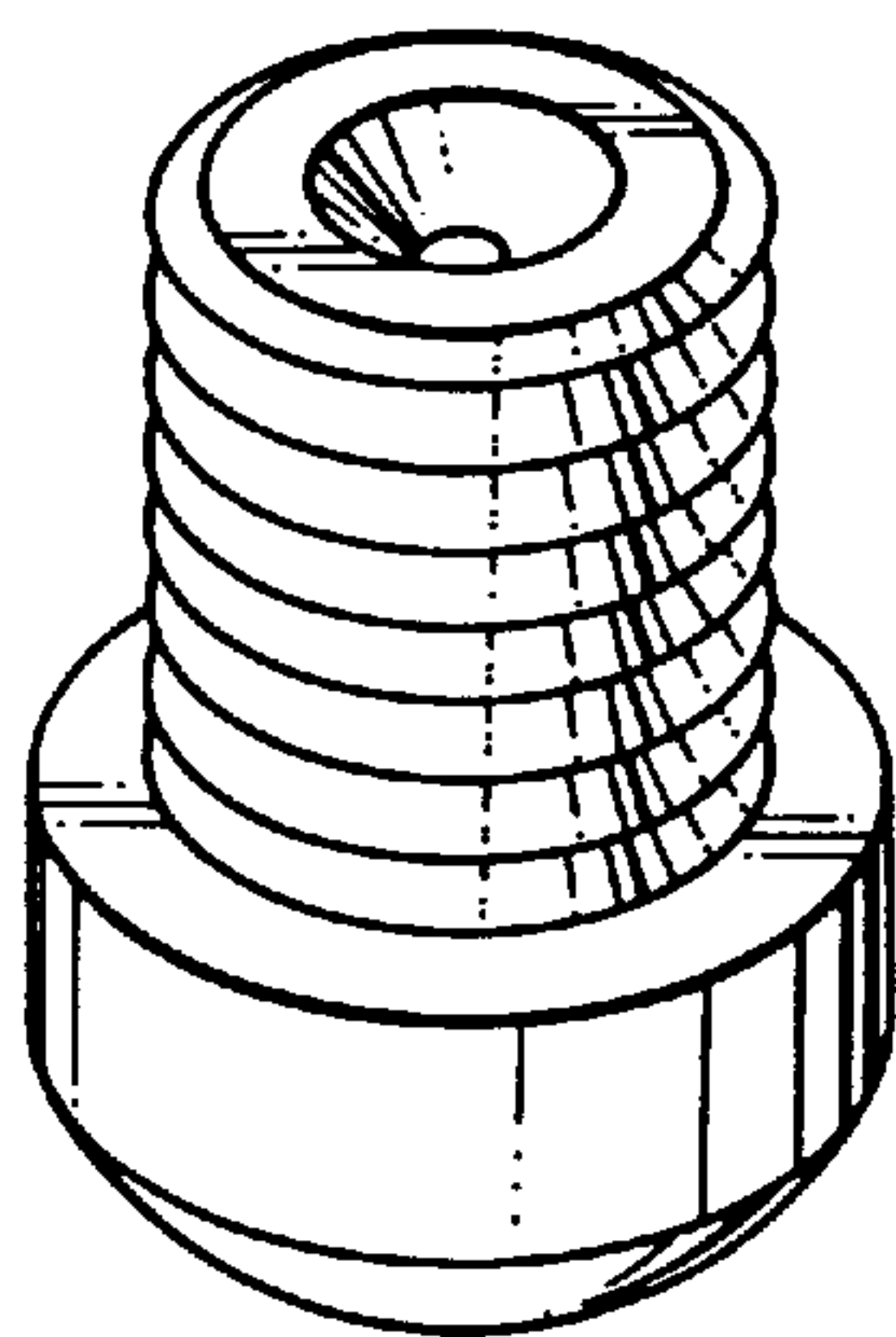


FIG. 27

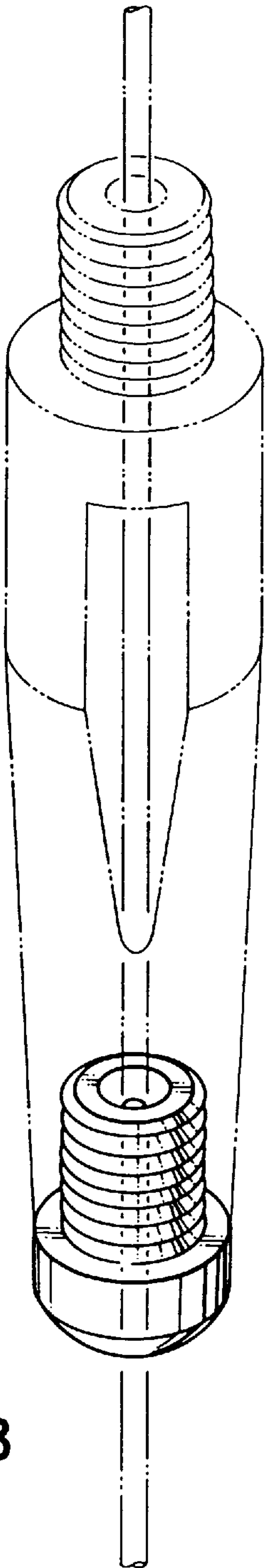


FIG. 28