

US00D409211S

United States Patent [19]

Hidaka

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[45] Date of Patent: ** May 4, 1999

[54] CONTACT TIP FOR AN ARC WELDER

[75] Inventor: Masato Hidaka, Kanagawa, Japan

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

[**] Term: 14 Years

[21] Appl. No.: 29/089,773

[22] Filed: Jun. 23, 1998

Related U.S. Application Data

[62] Division of application No. 29/062,729, Nov. 22, 1996, abandoned.

[30] Foreign Application Priority Data

May 23, 1996 [JP] Japan 8-14772

[51] LOC (6) Cl. 15-08

[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

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Primary Examiner—Antoine Duval Davis

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

[57] CLAIM

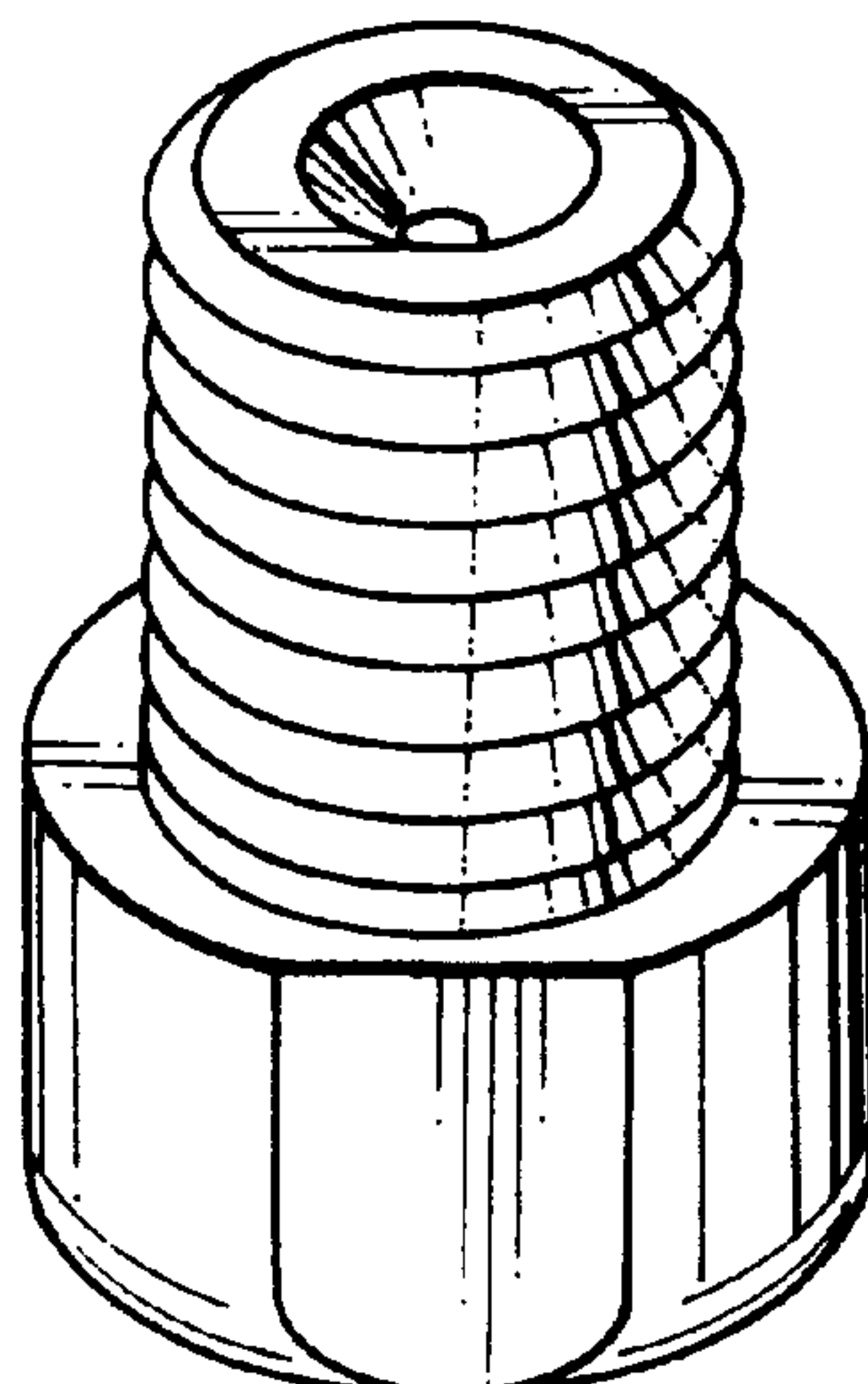
The ornamental design for a “contact tip for an arc welder”, as shown and described.

DESCRIPTION

FIG. 1 is a front elevational view of a contact tip for an arc welder 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 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 the first type of the adapter into which the leg portion of the contact tip is screw-fitted;
FIG. 10 is a similar view in FIG. 9 but showing by an imaginary line the 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 thereof along the line 2—2 in FIG. 13;
FIG. 18 is a front perspective view thereof;
FIG. 19 is a similar view in FIG. 18 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;
FIG. 20 is a similar view in FIG. 19 but showing by an imaginary line the second type of the adapter;
FIG. 21 is a front elevational view of a third embodiment of a contact tip for an arc welding showing the applicant's new design;
FIG. 22 is a rear side elevational view thereof;
FIG. 23 is a top plan view thereof;
FIG. 24 is a bottom plan view thereof;
FIG. 25 is a left side side elevational view thereof;
FIG. 26 is a right side side elevational view thereof;
FIG. 27 is a longitudinal sectional view along the line 3—3 in FIG. 23;
FIG. 28 is a front perspective view thereof;
FIG. 29 is a similar view in FIG. 28 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. 30 is a similar view in FIG. 29 but showing by an imaginary line the second type of the adapter.

1 Claim, 9 Drawing Sheets



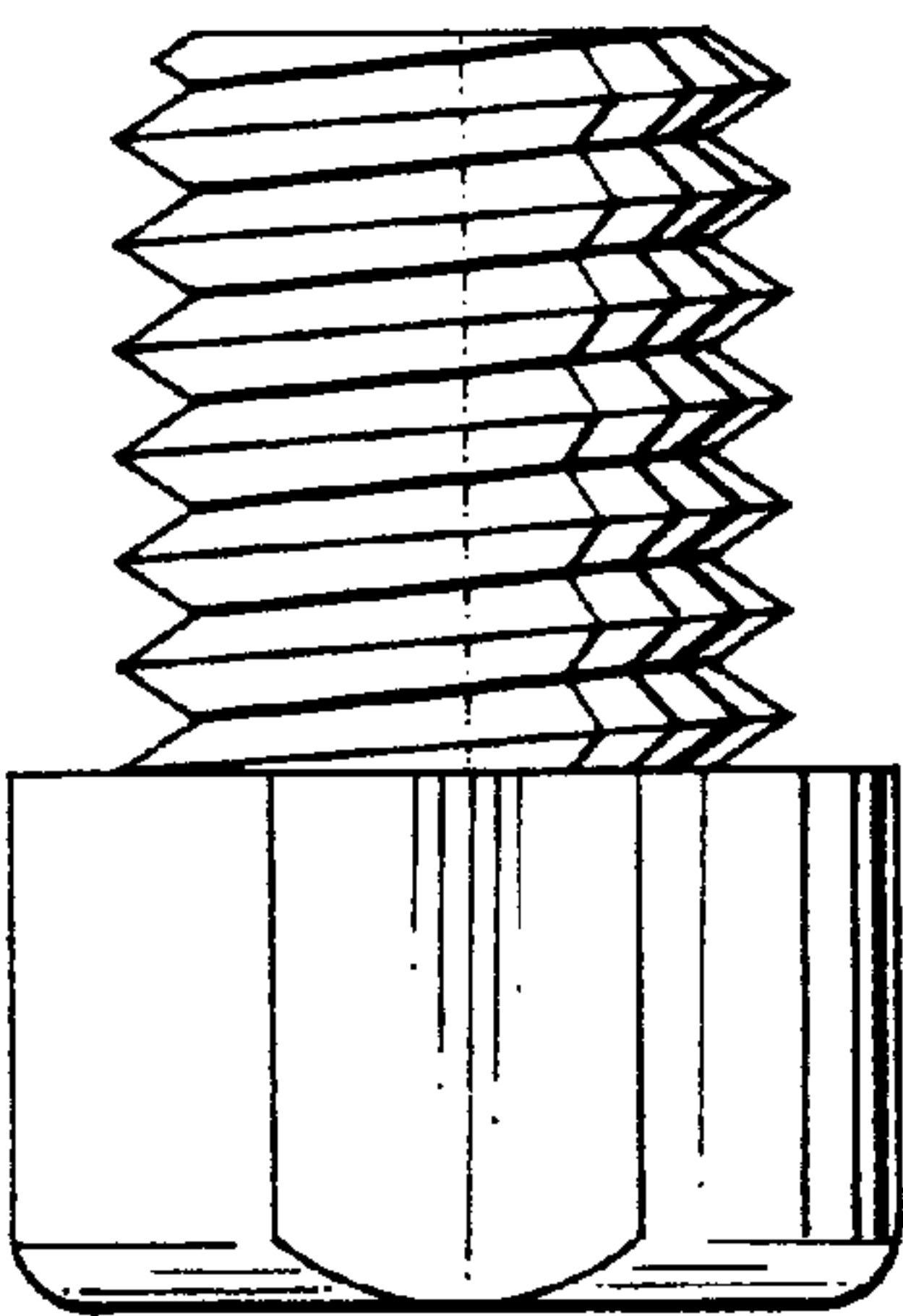


FIG. 1

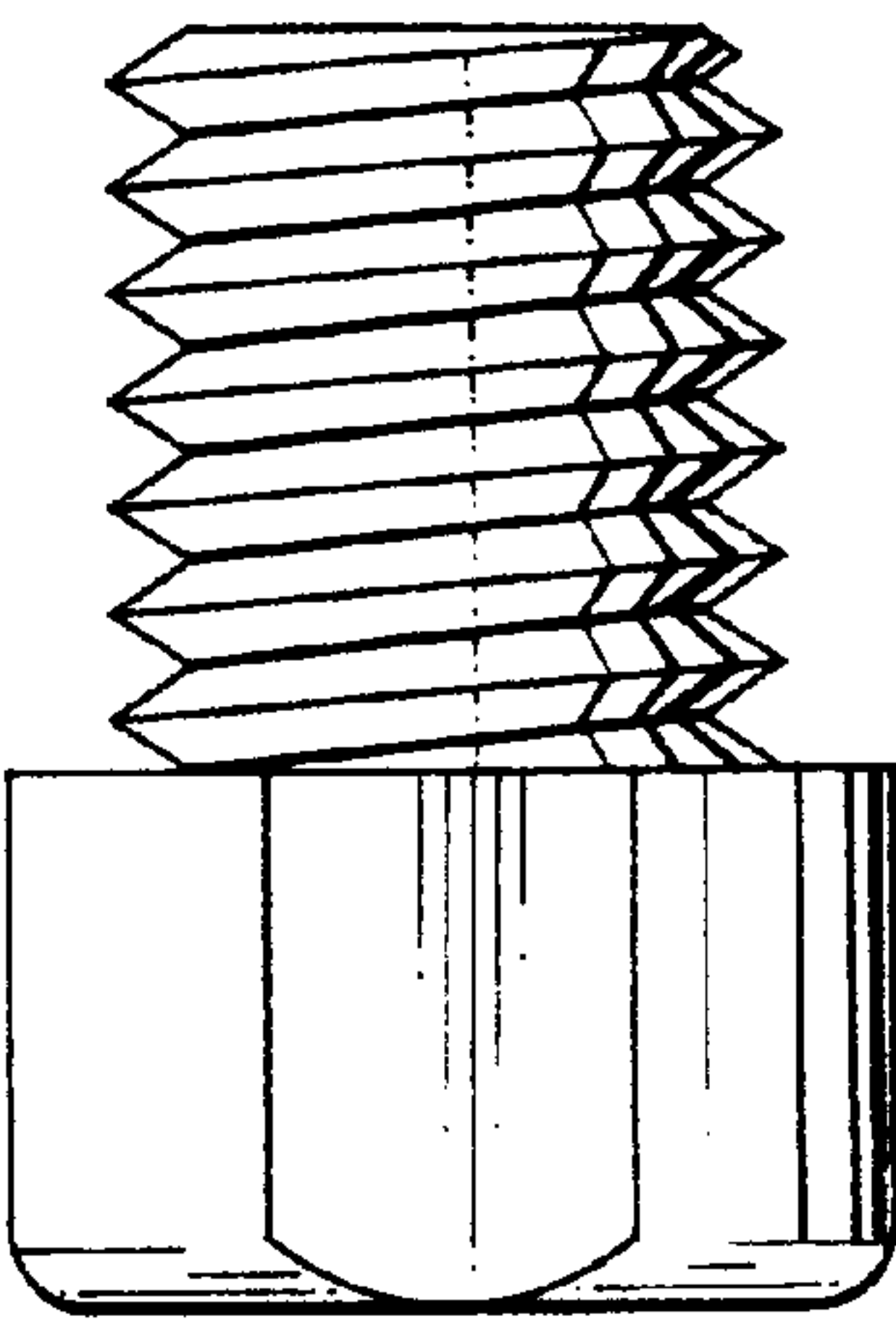


FIG. 2

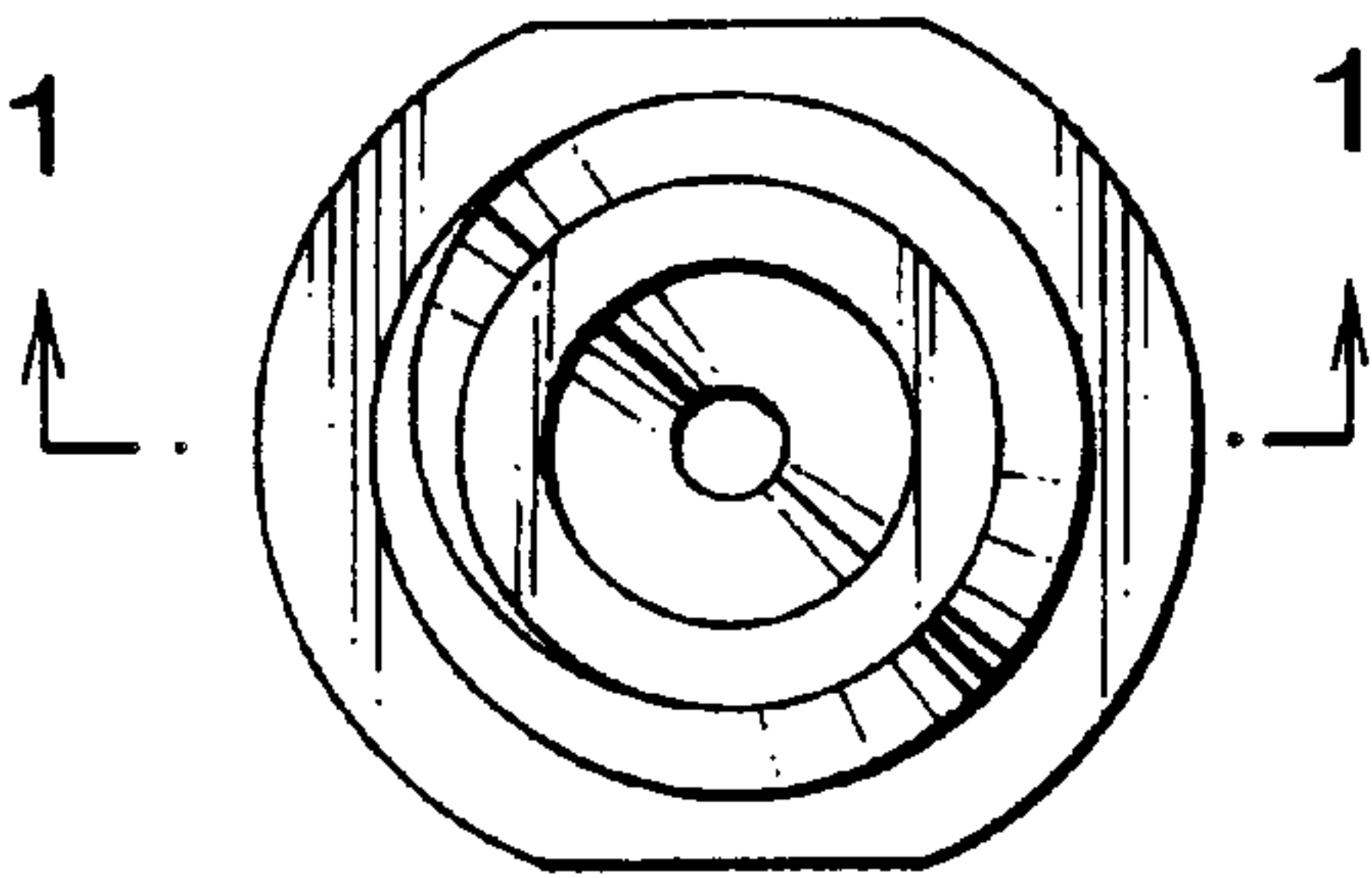


FIG. 3

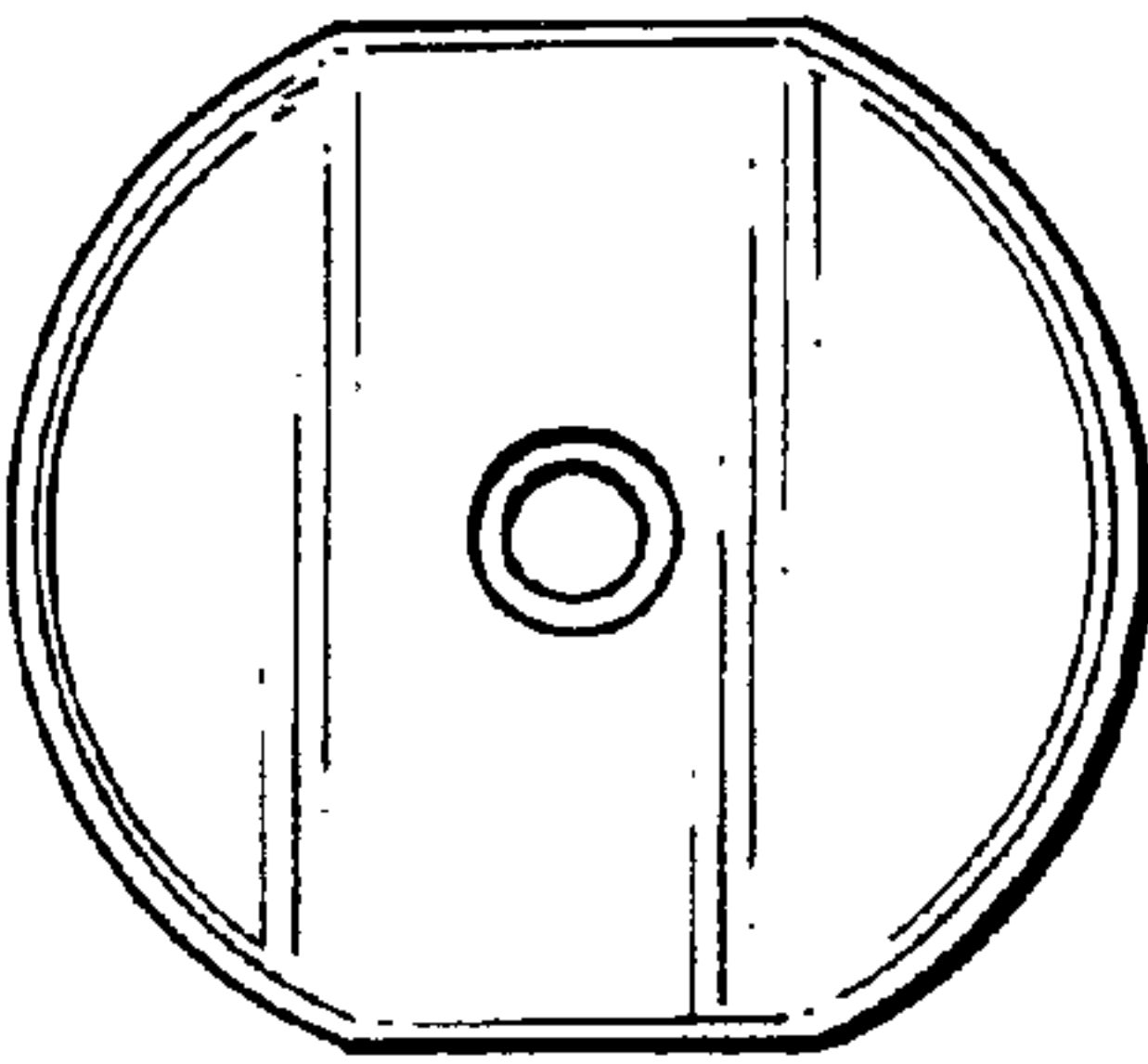


FIG. 4

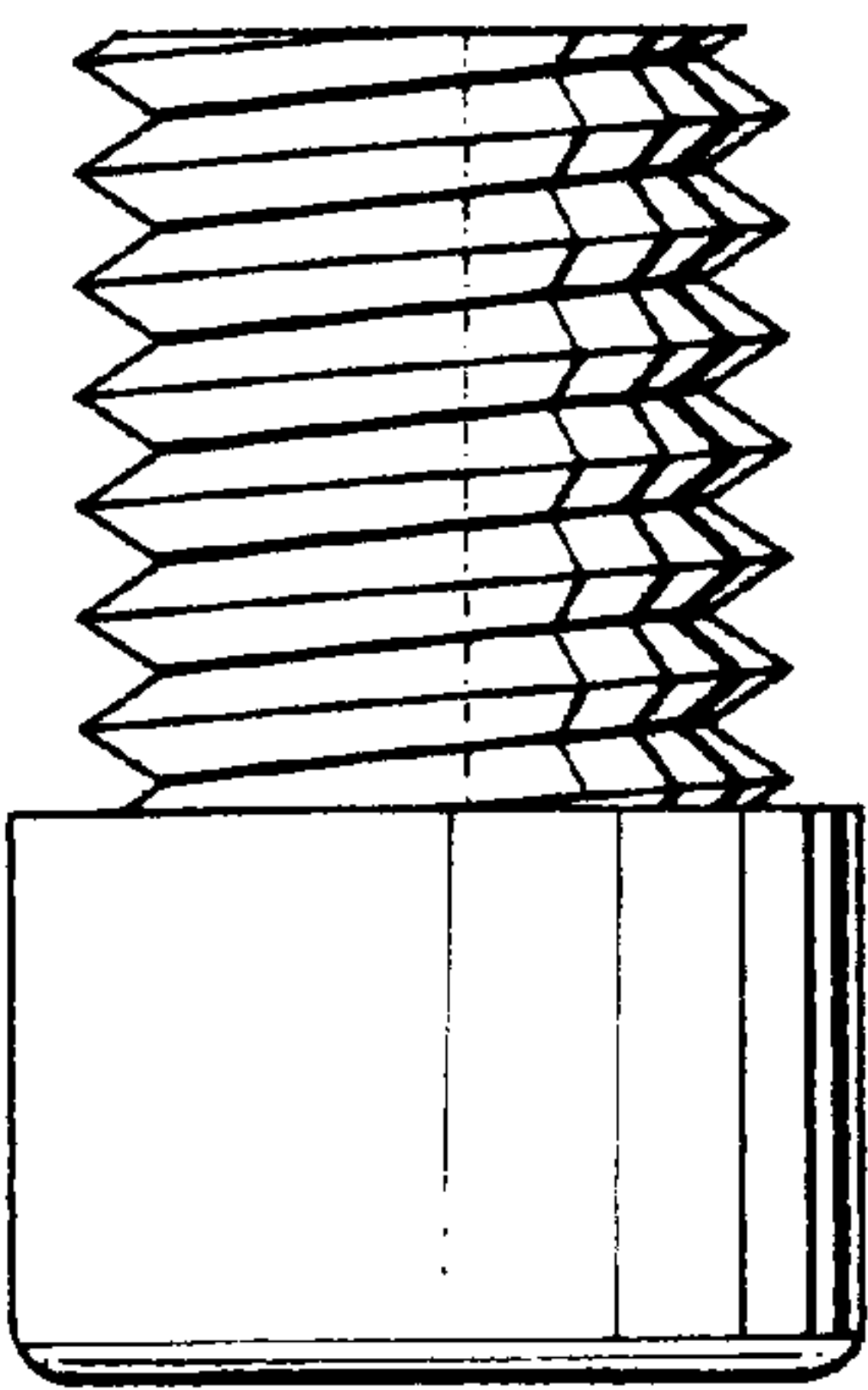


FIG. 5

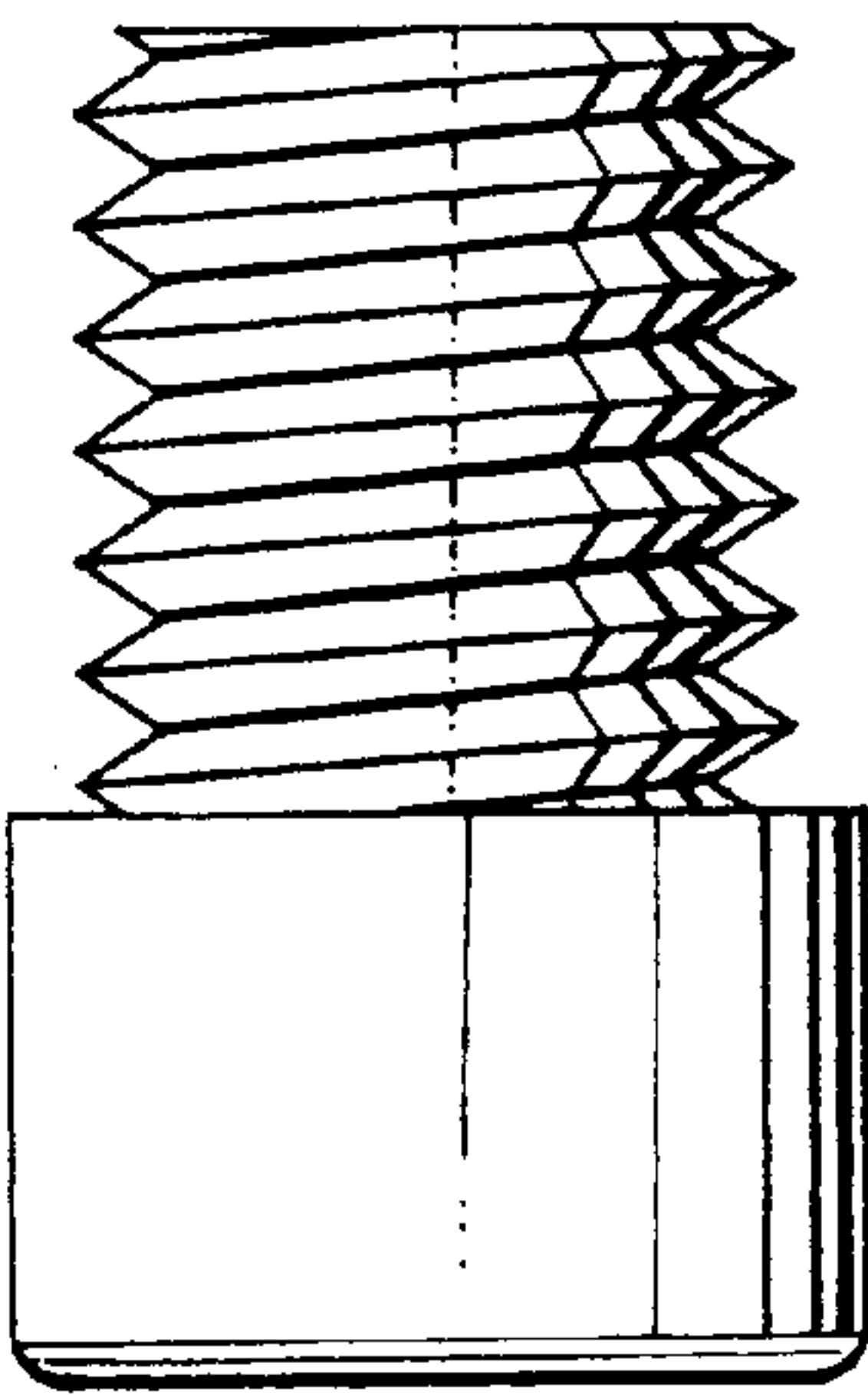


FIG. 6

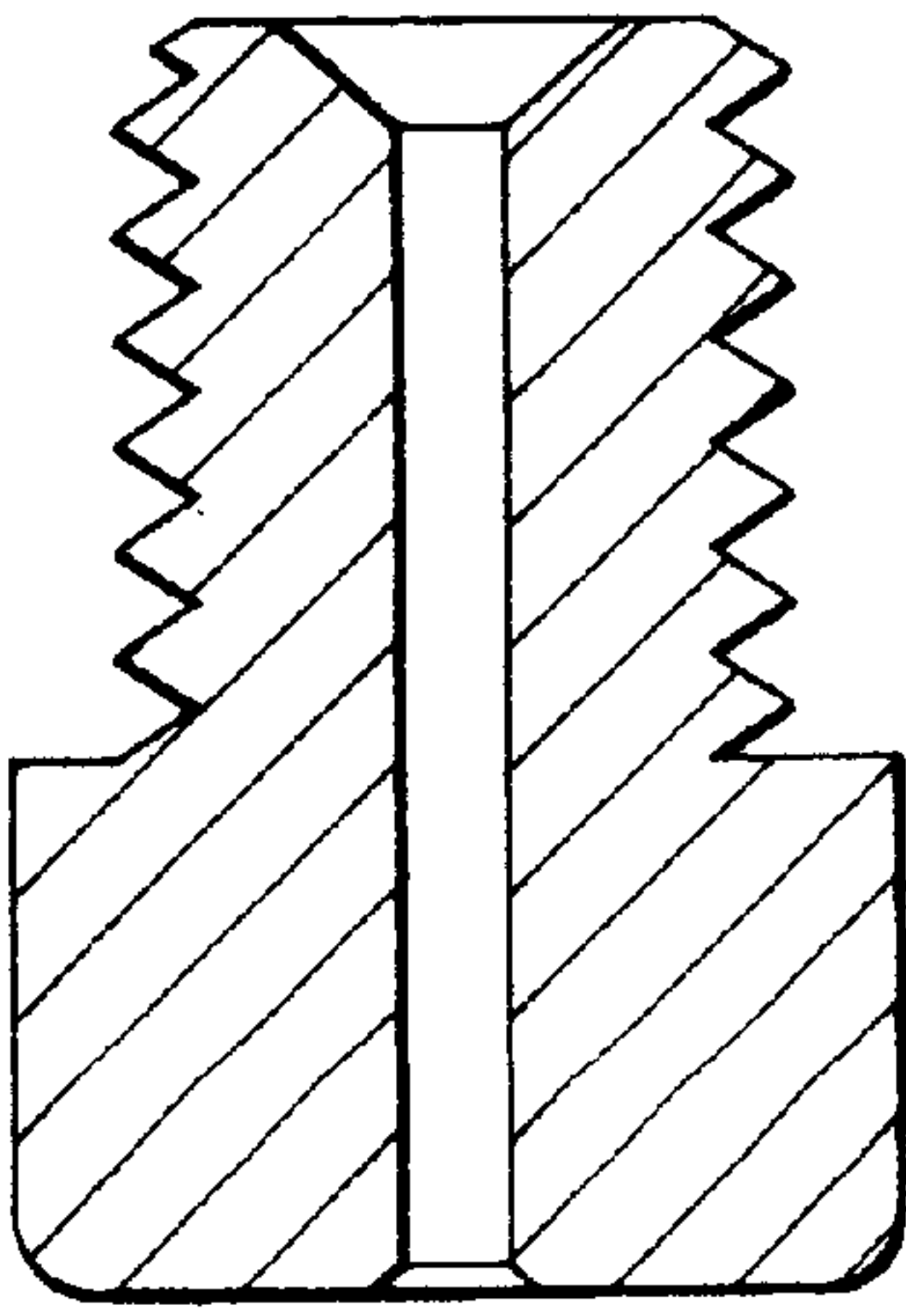


FIG. 7

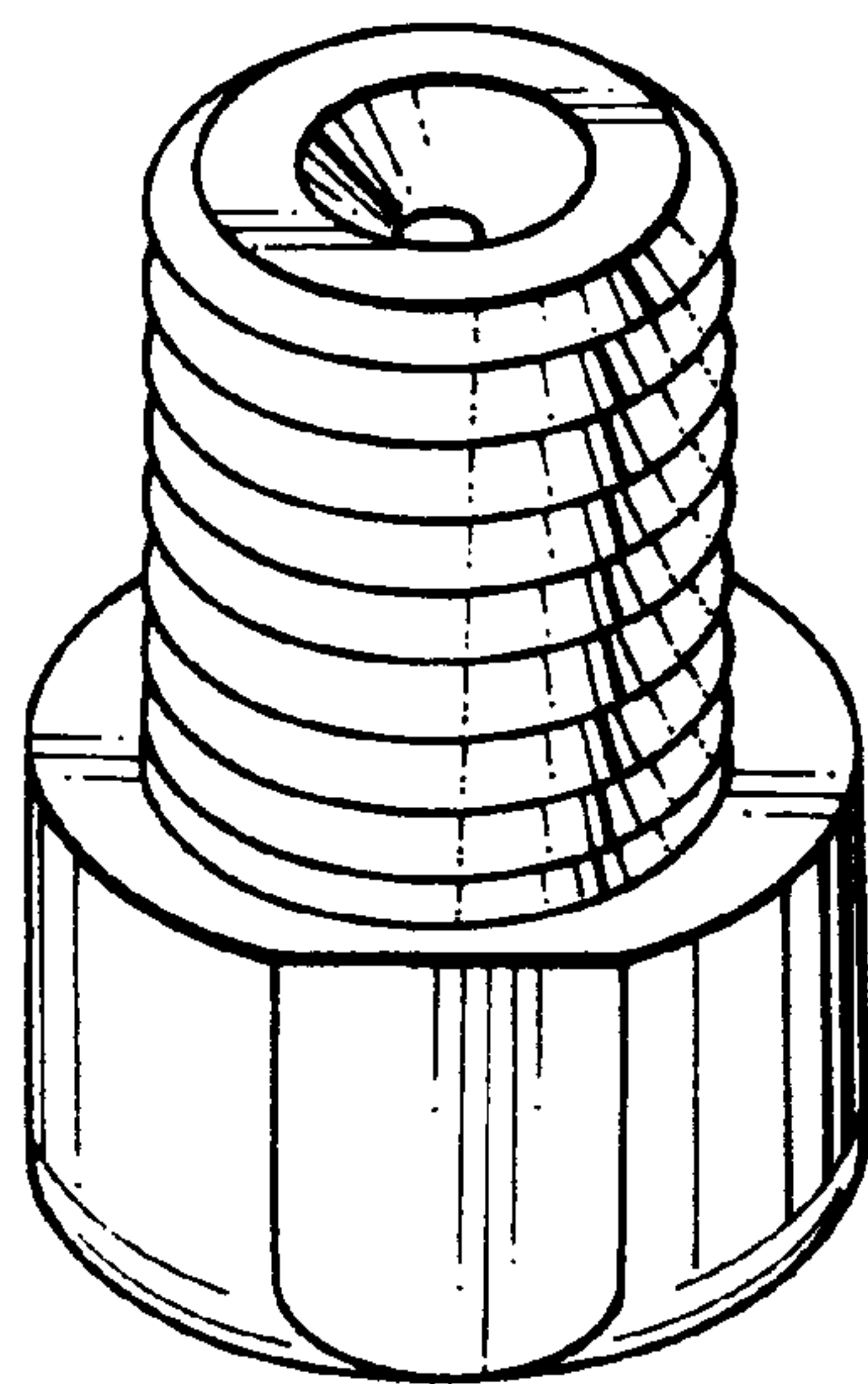


FIG. 8

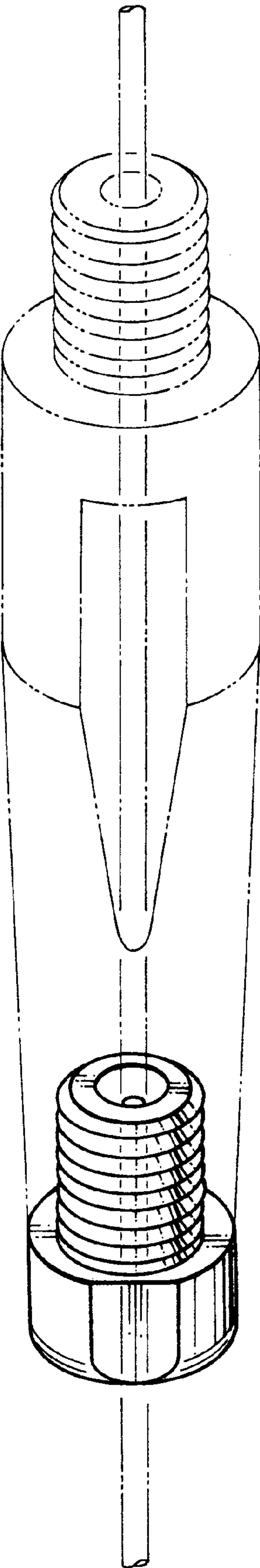


FIG. 9

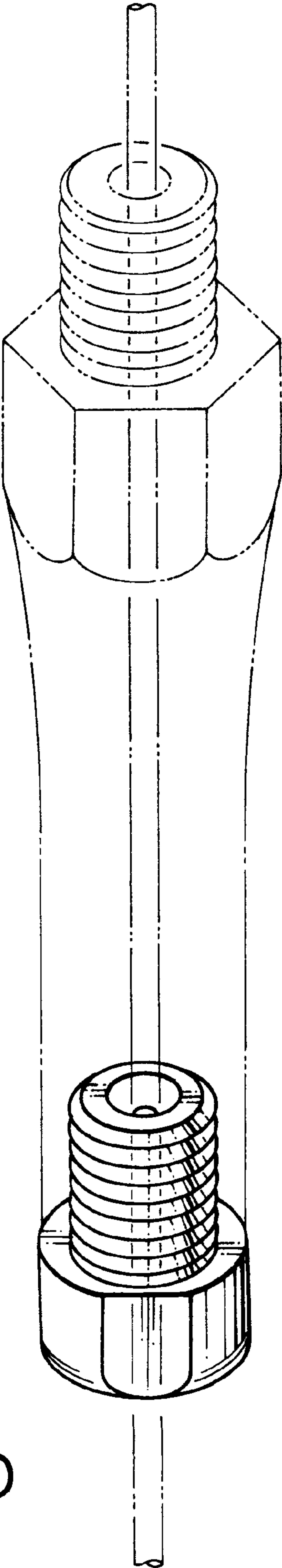


FIG. 10

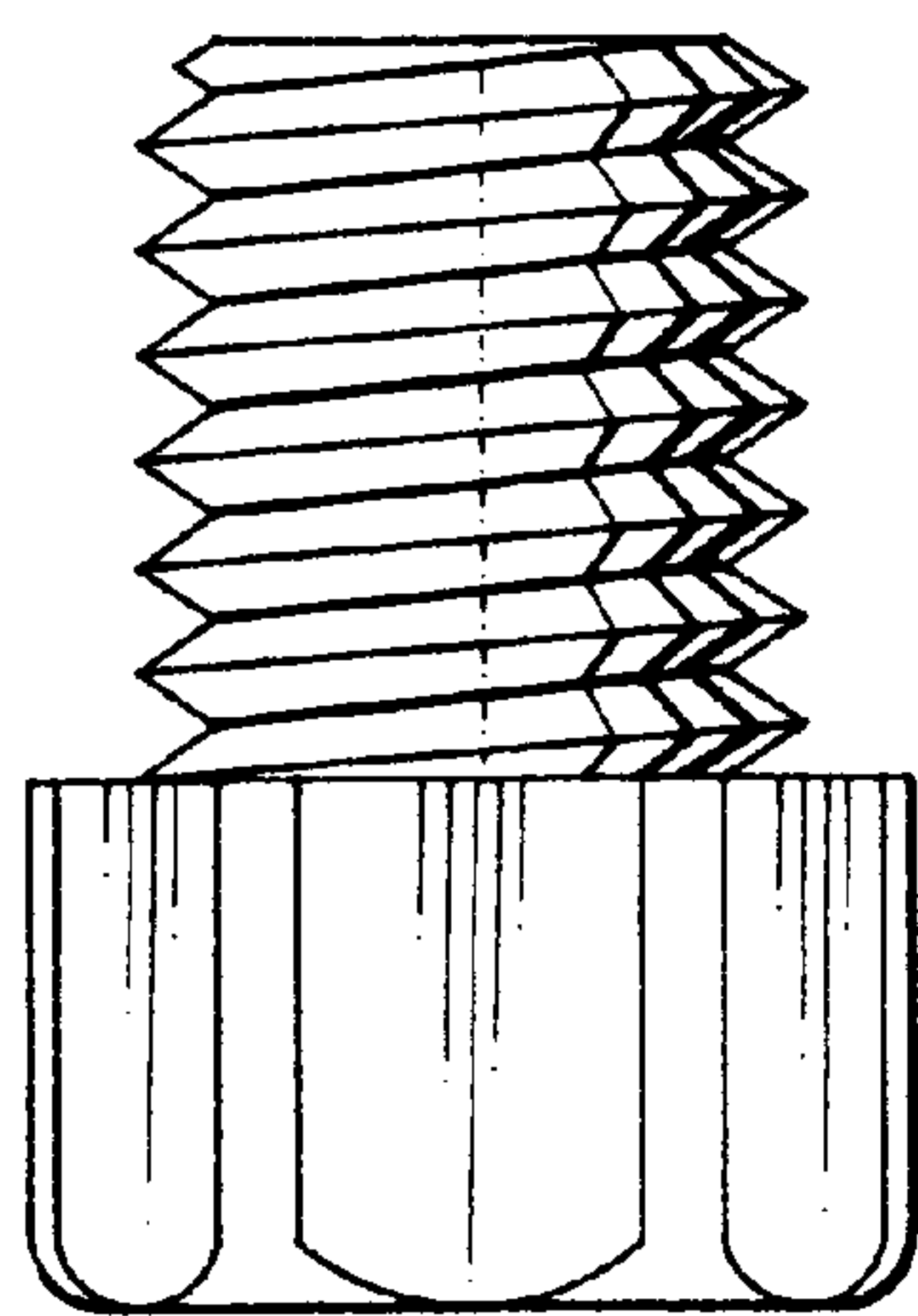


FIG. 11

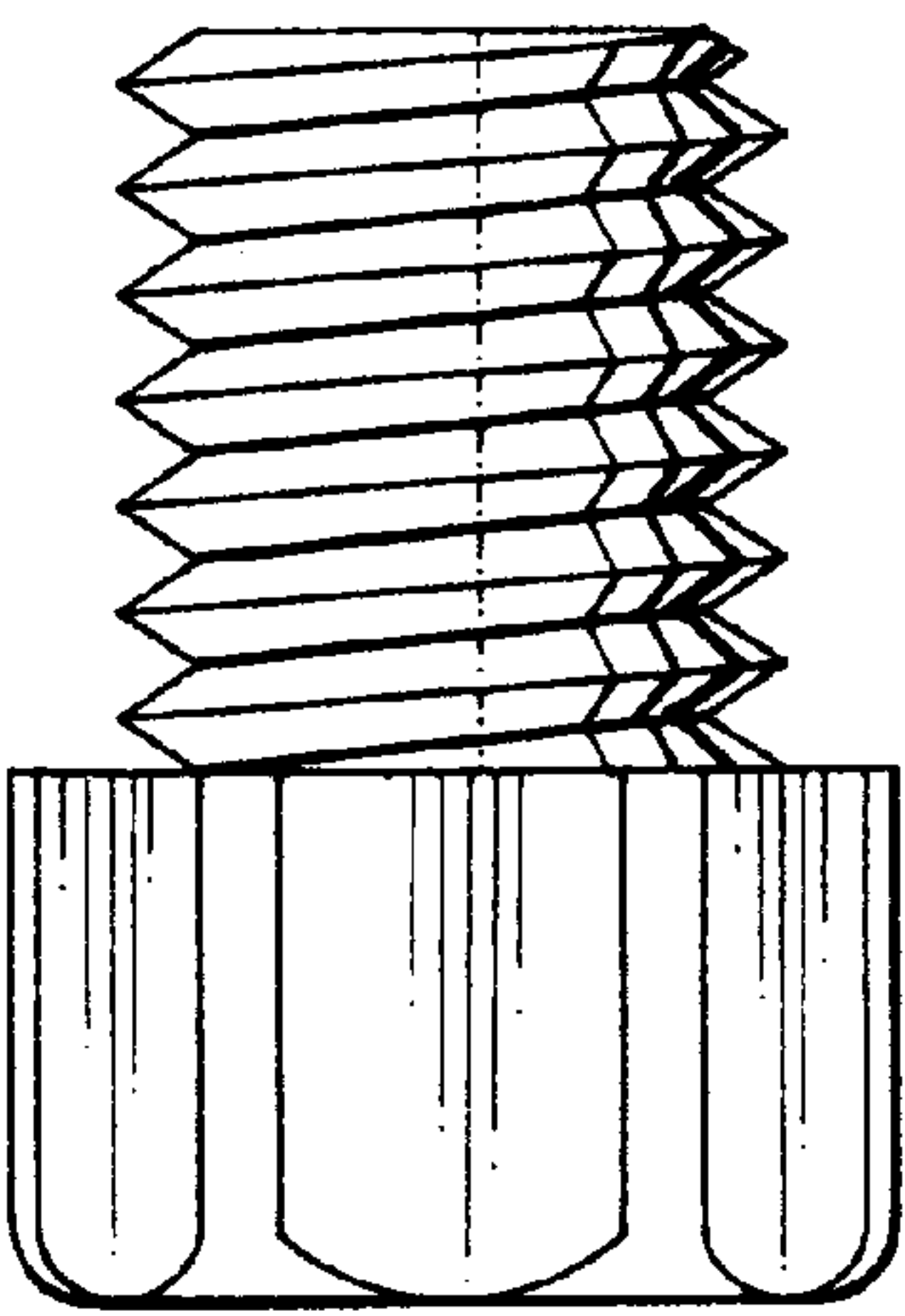


FIG. 12

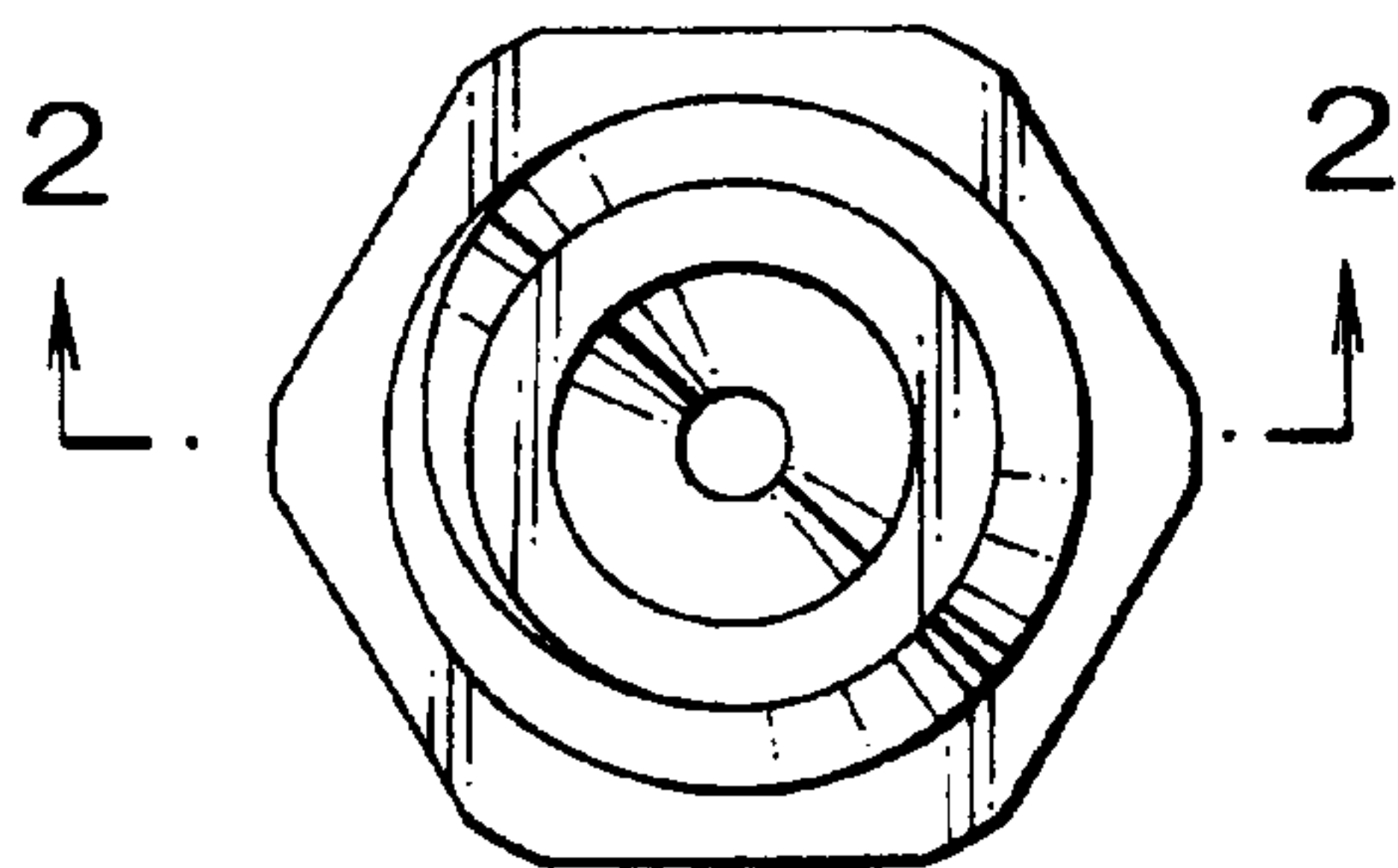


FIG. 13

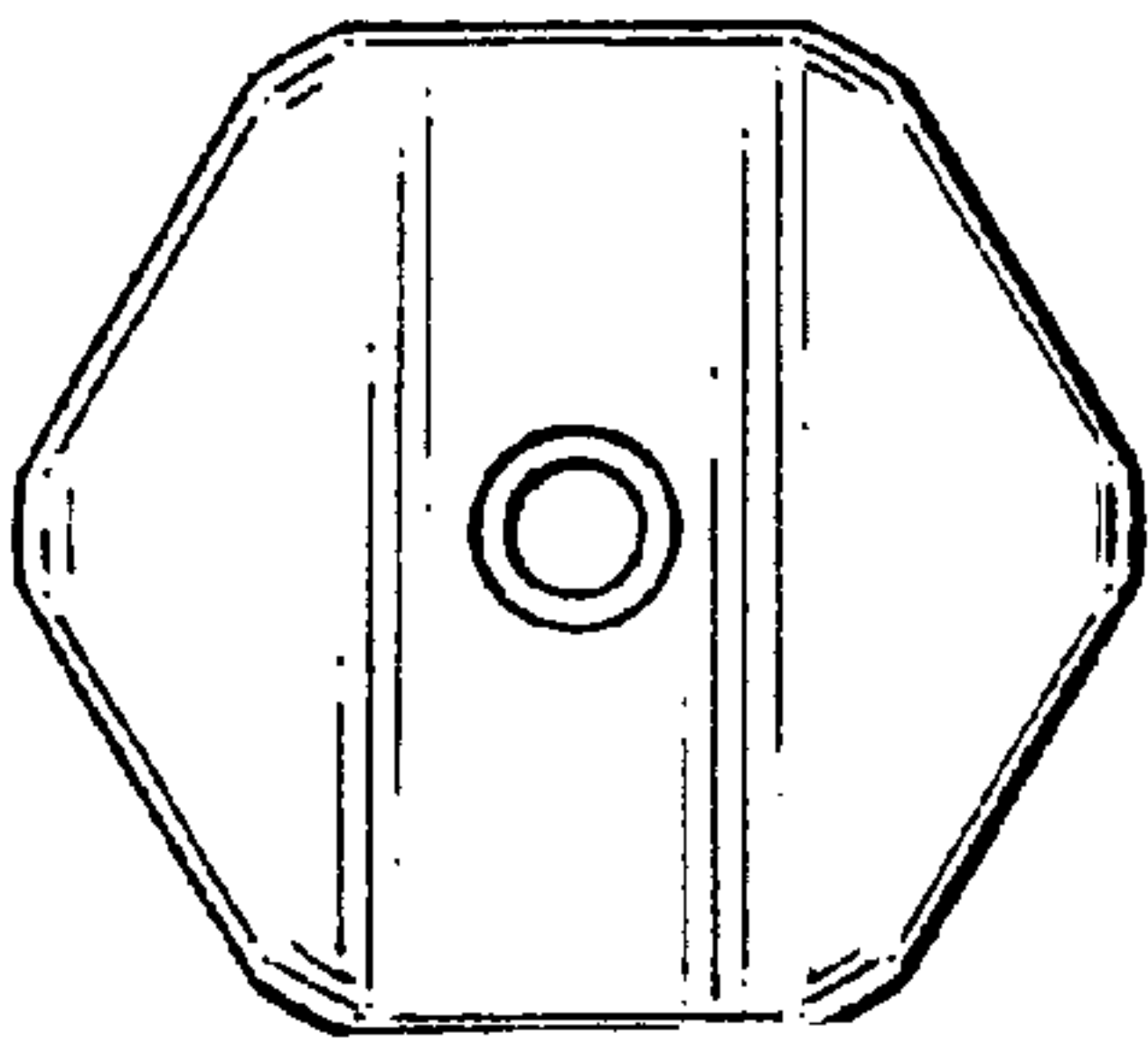


FIG. 14

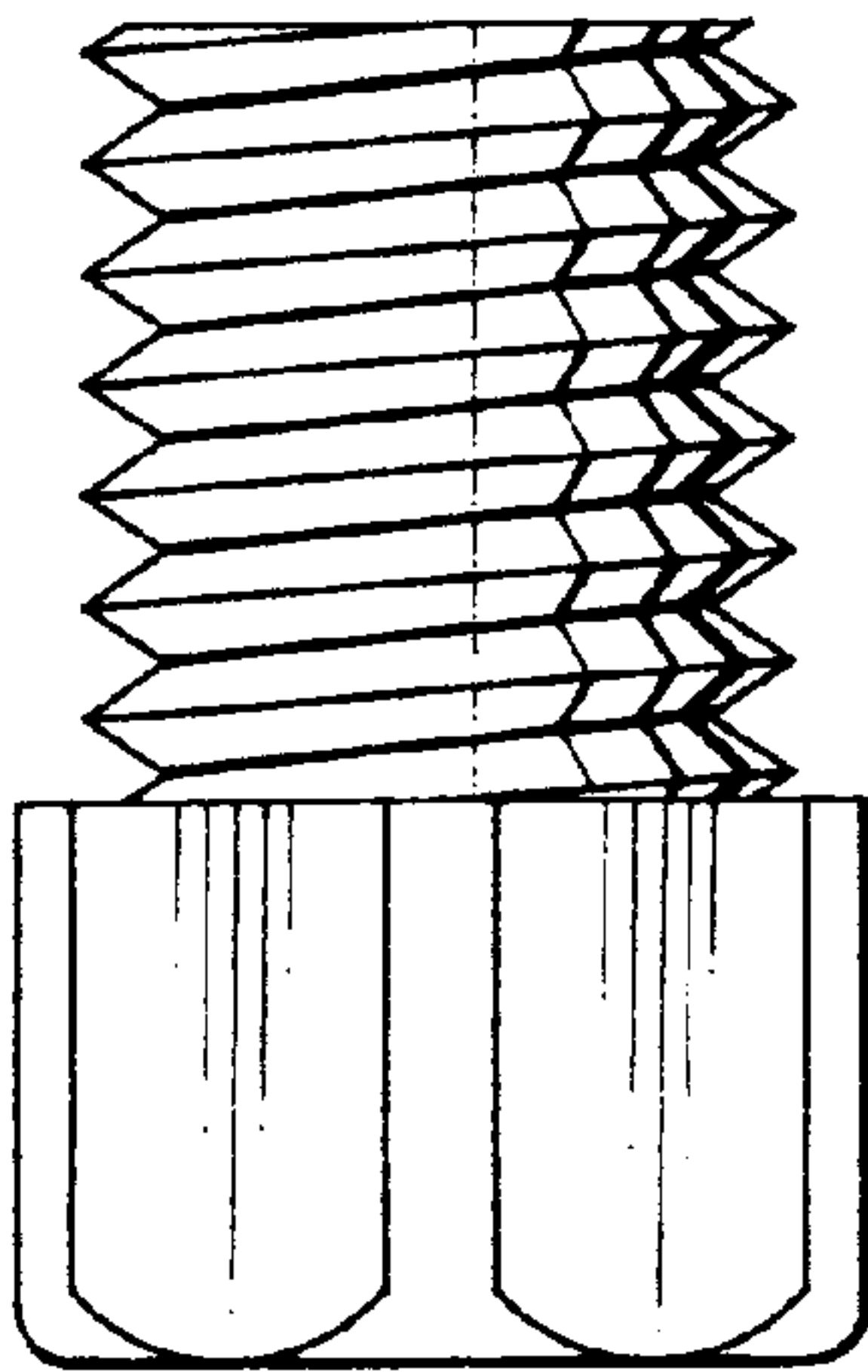


FIG. 15

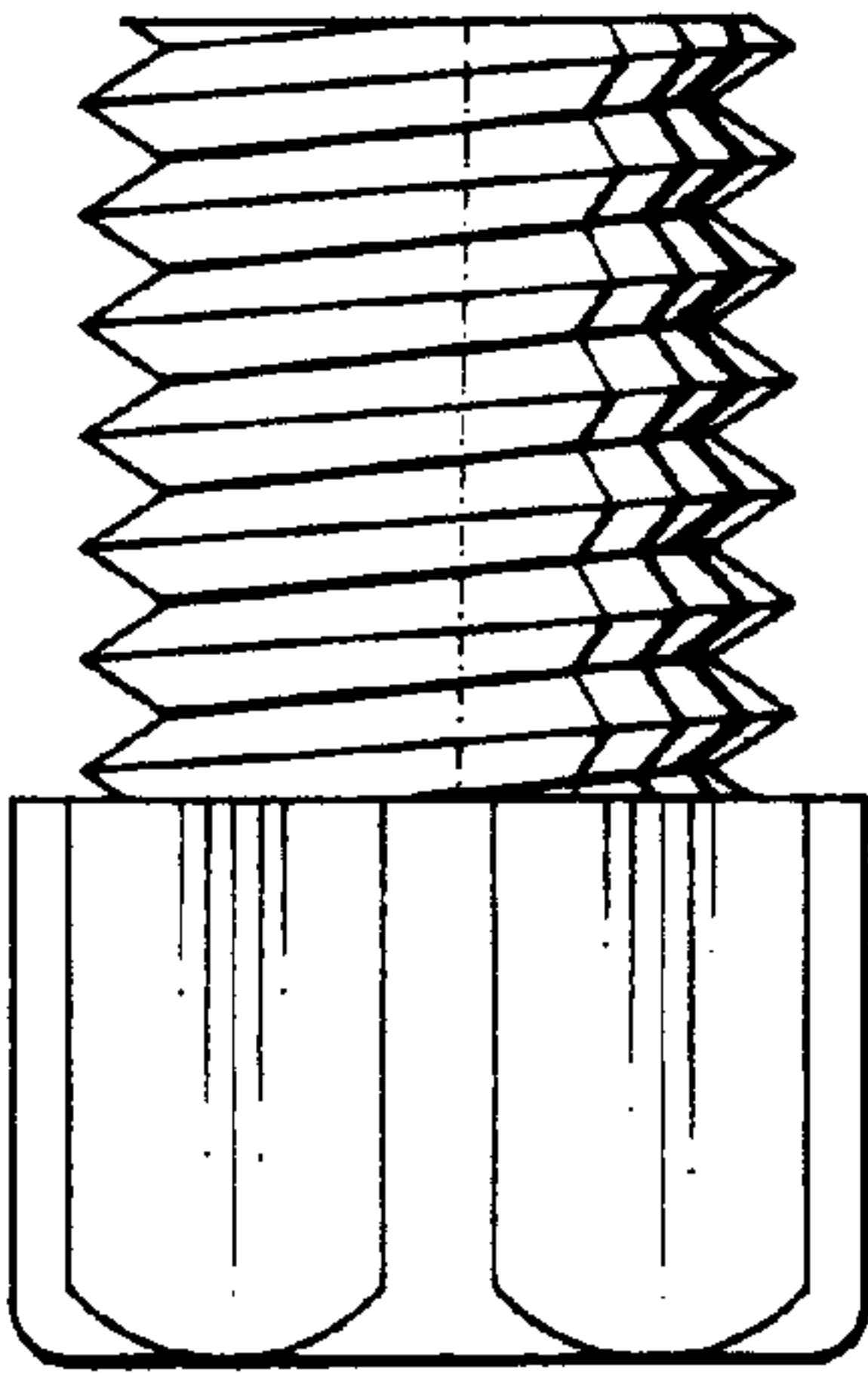


FIG. 16

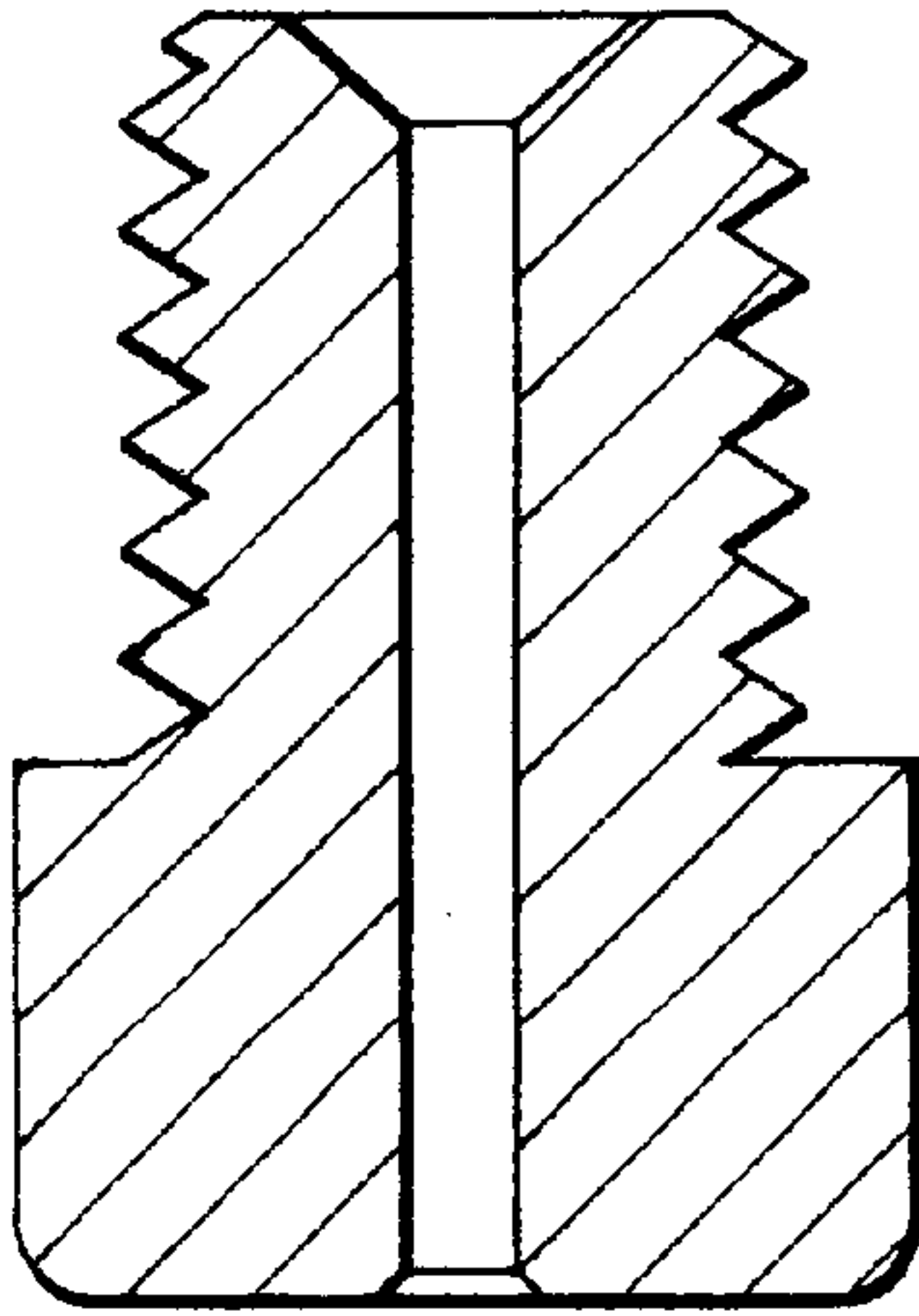


FIG. 17

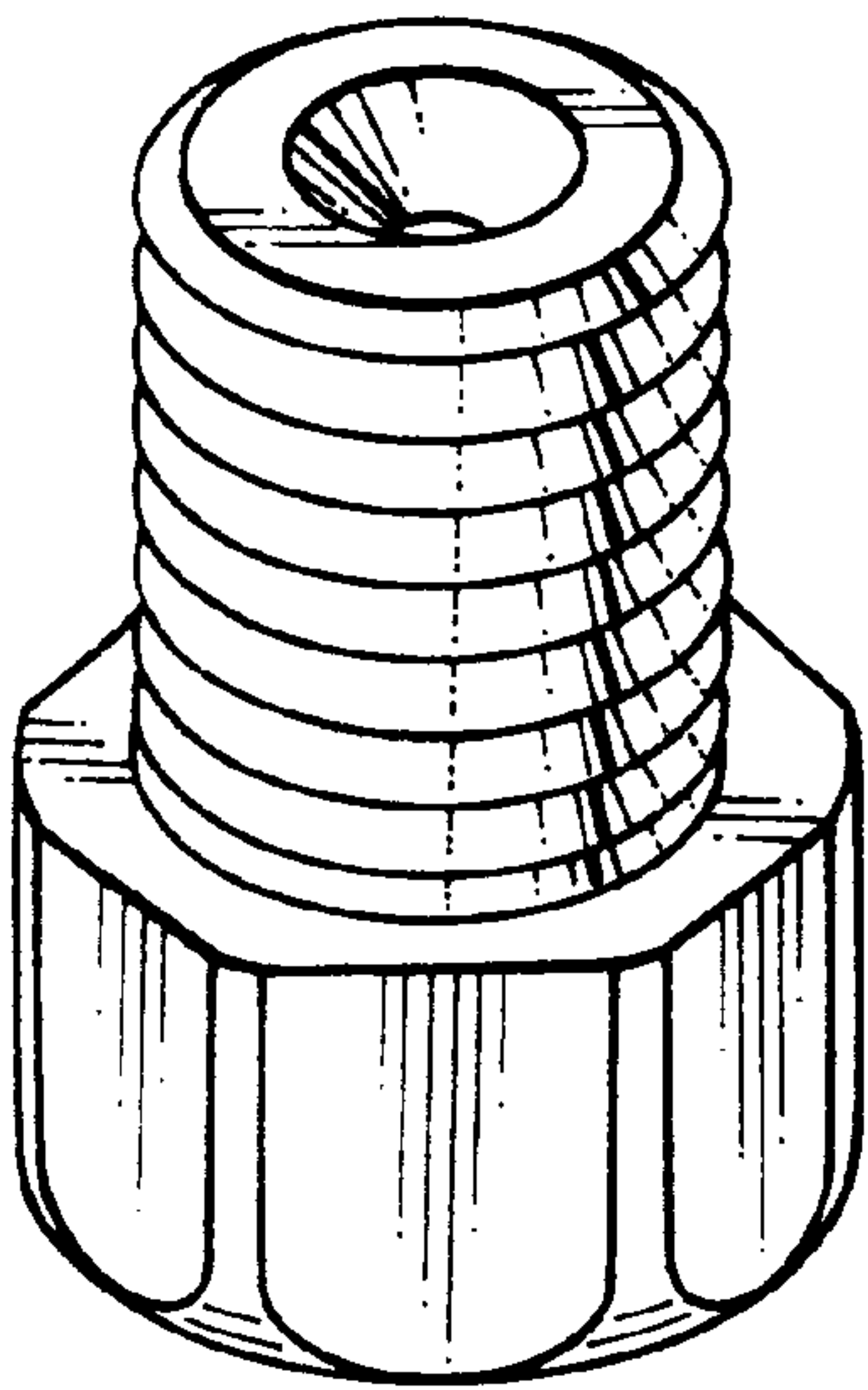


FIG. 18

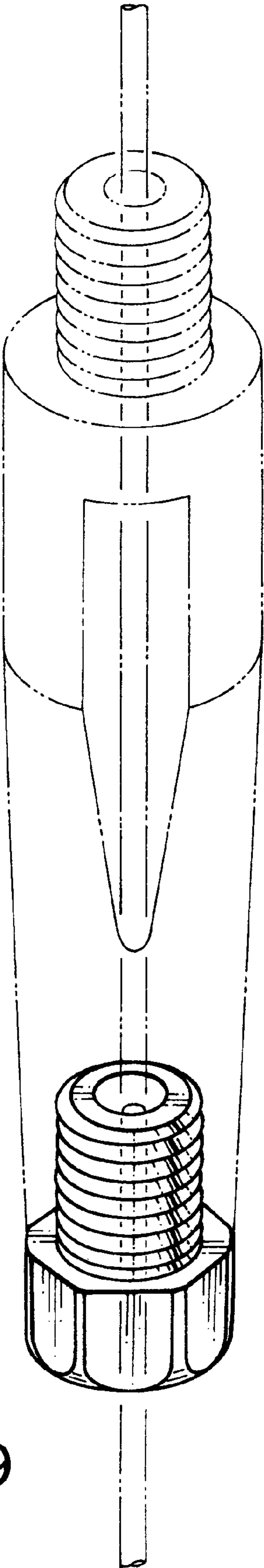


FIG. 19

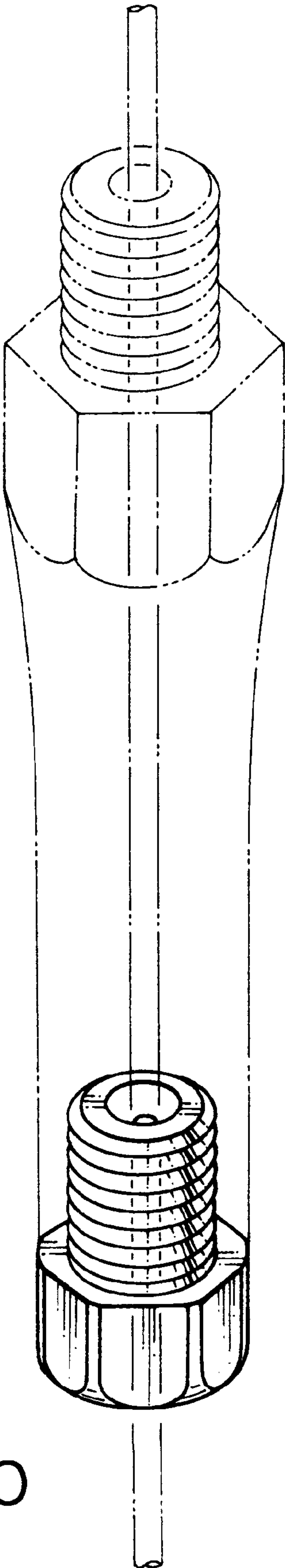


FIG. 20

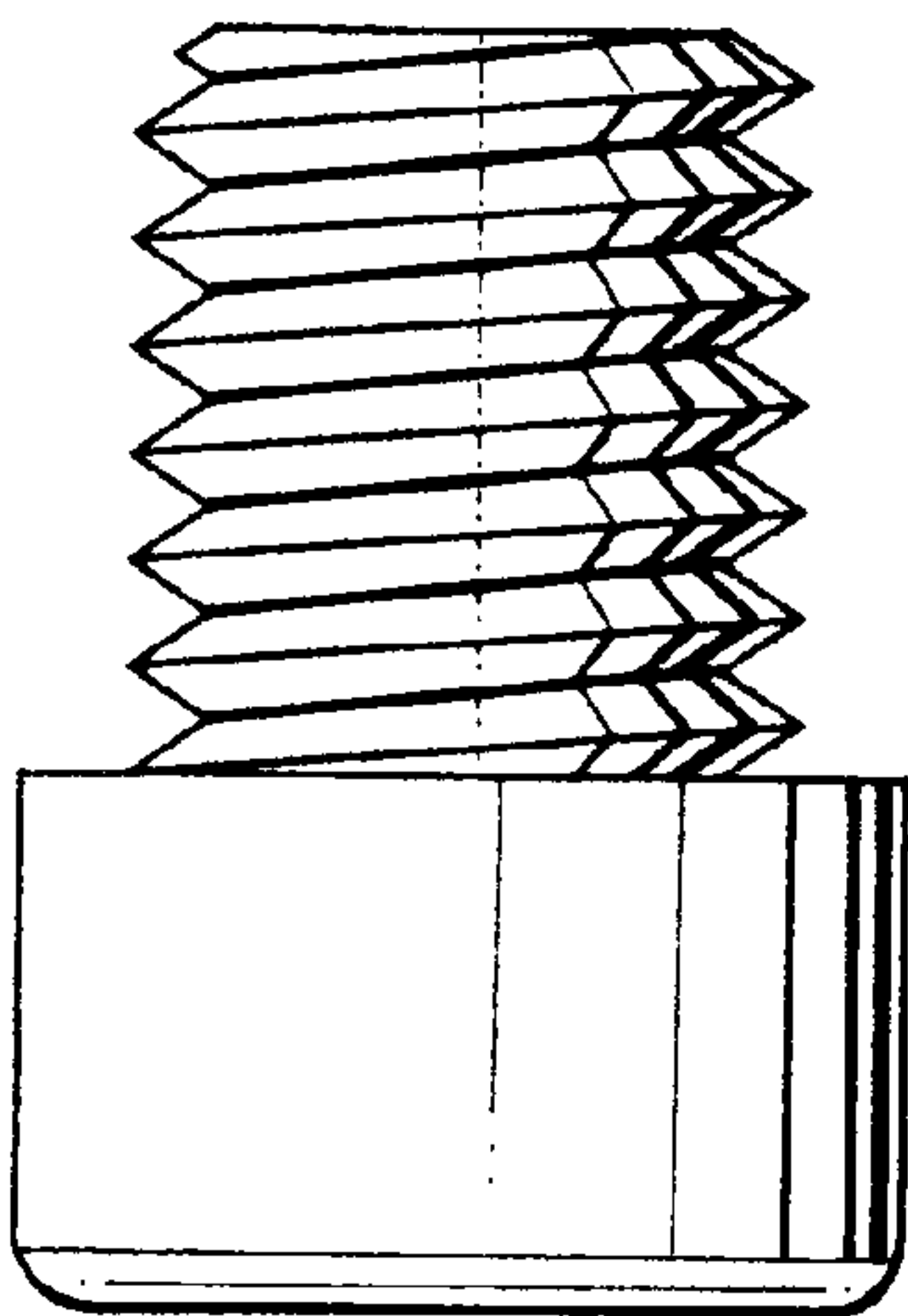


FIG. 21

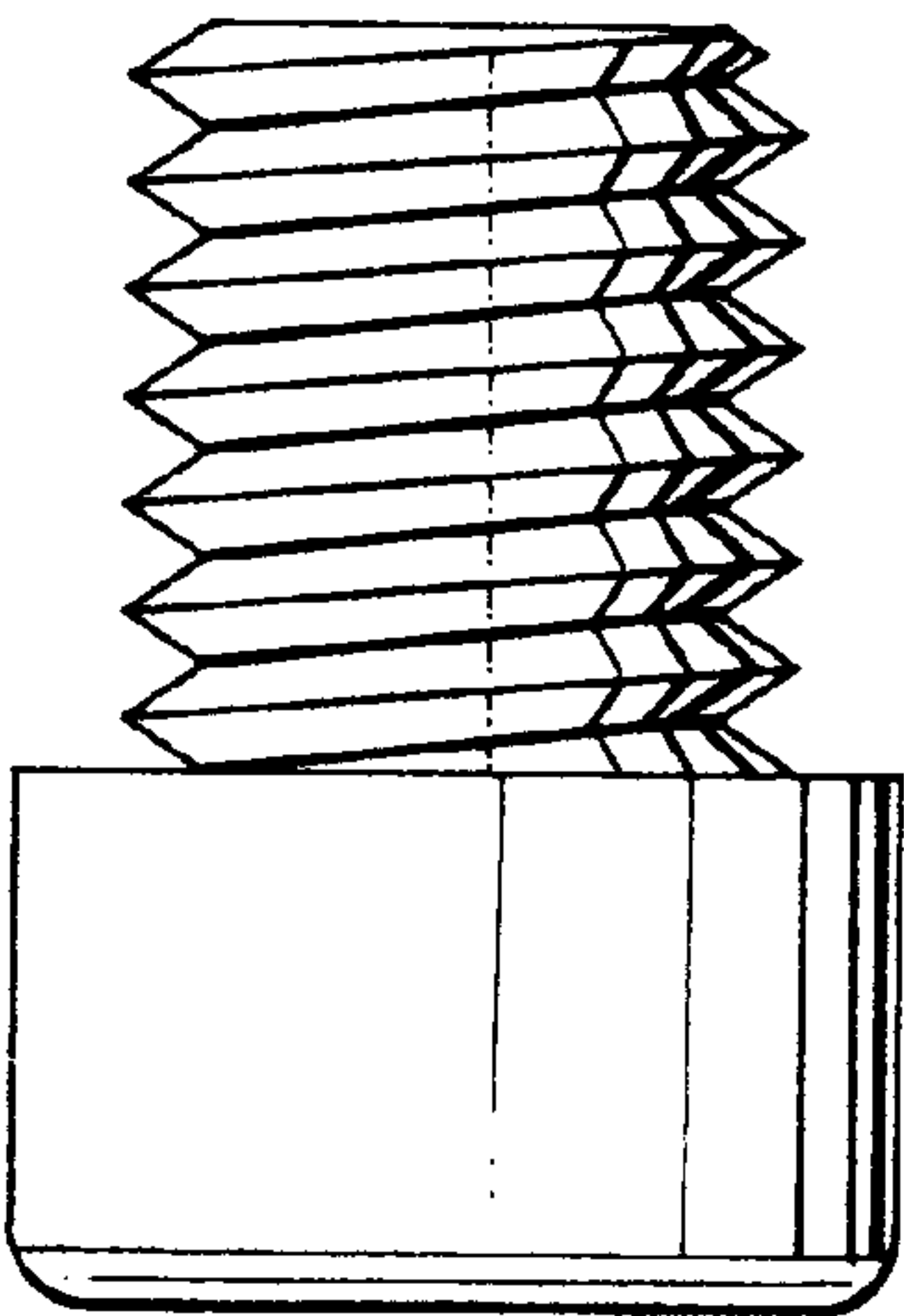


FIG. 22

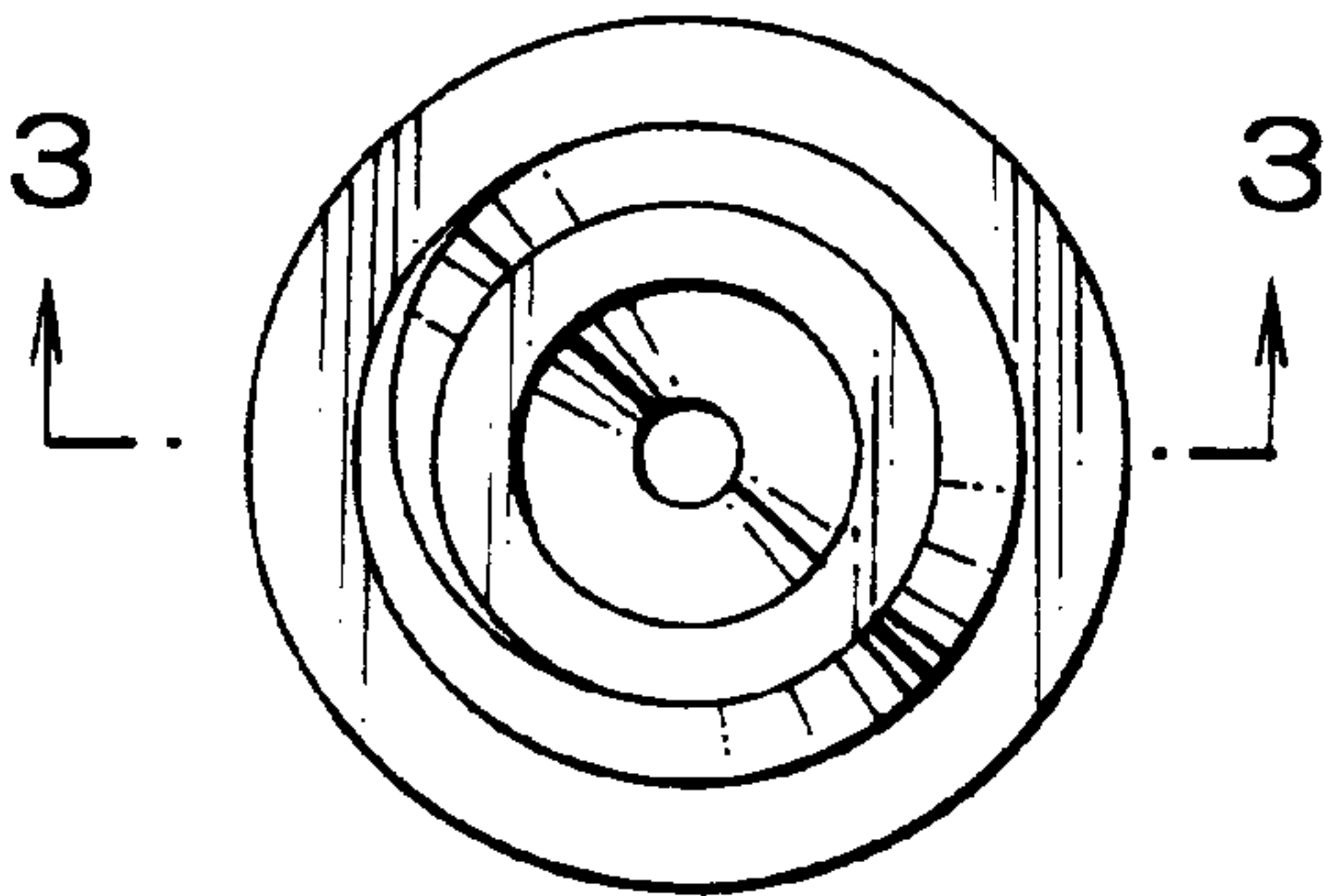


FIG. 23

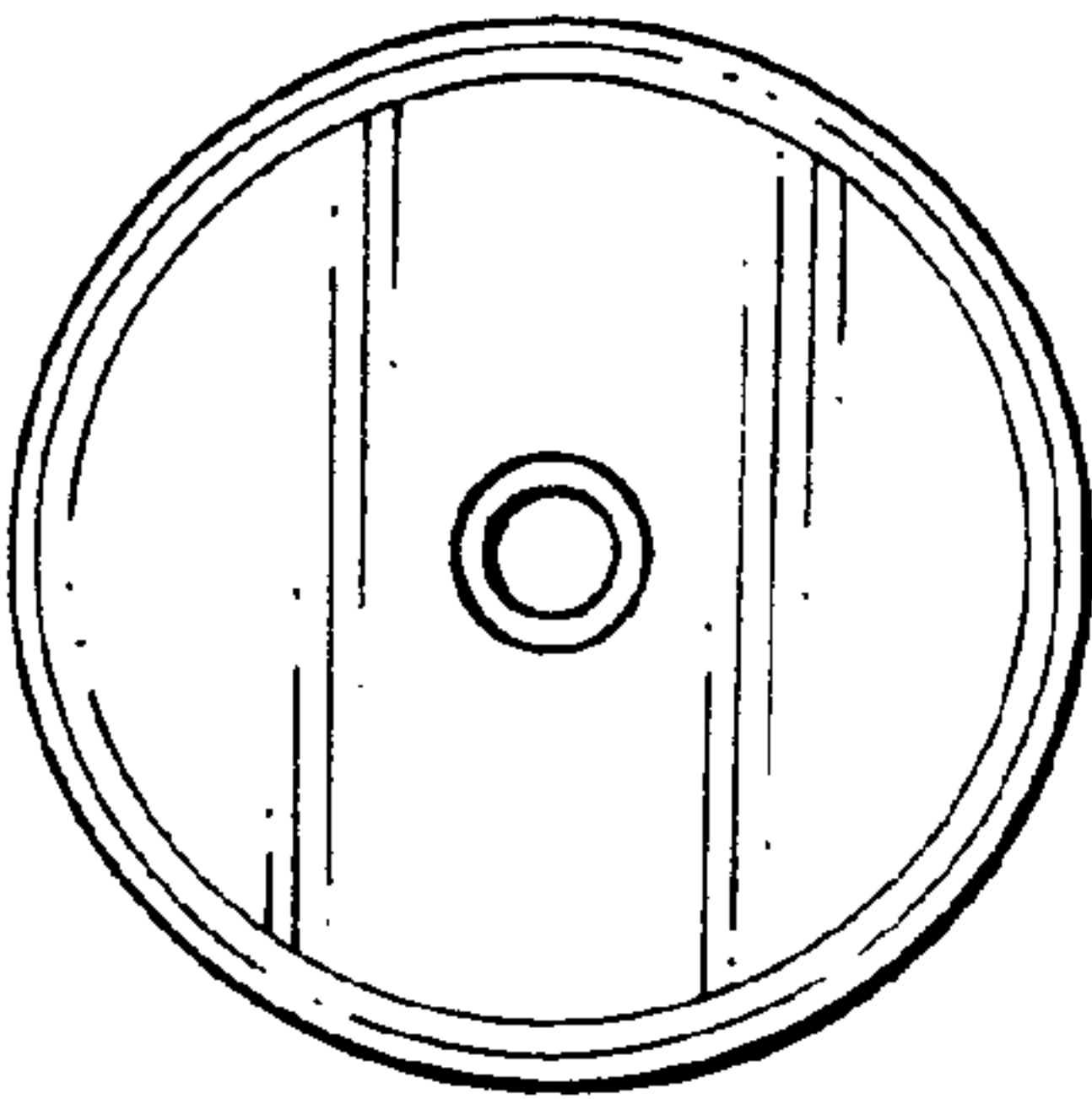


FIG. 24

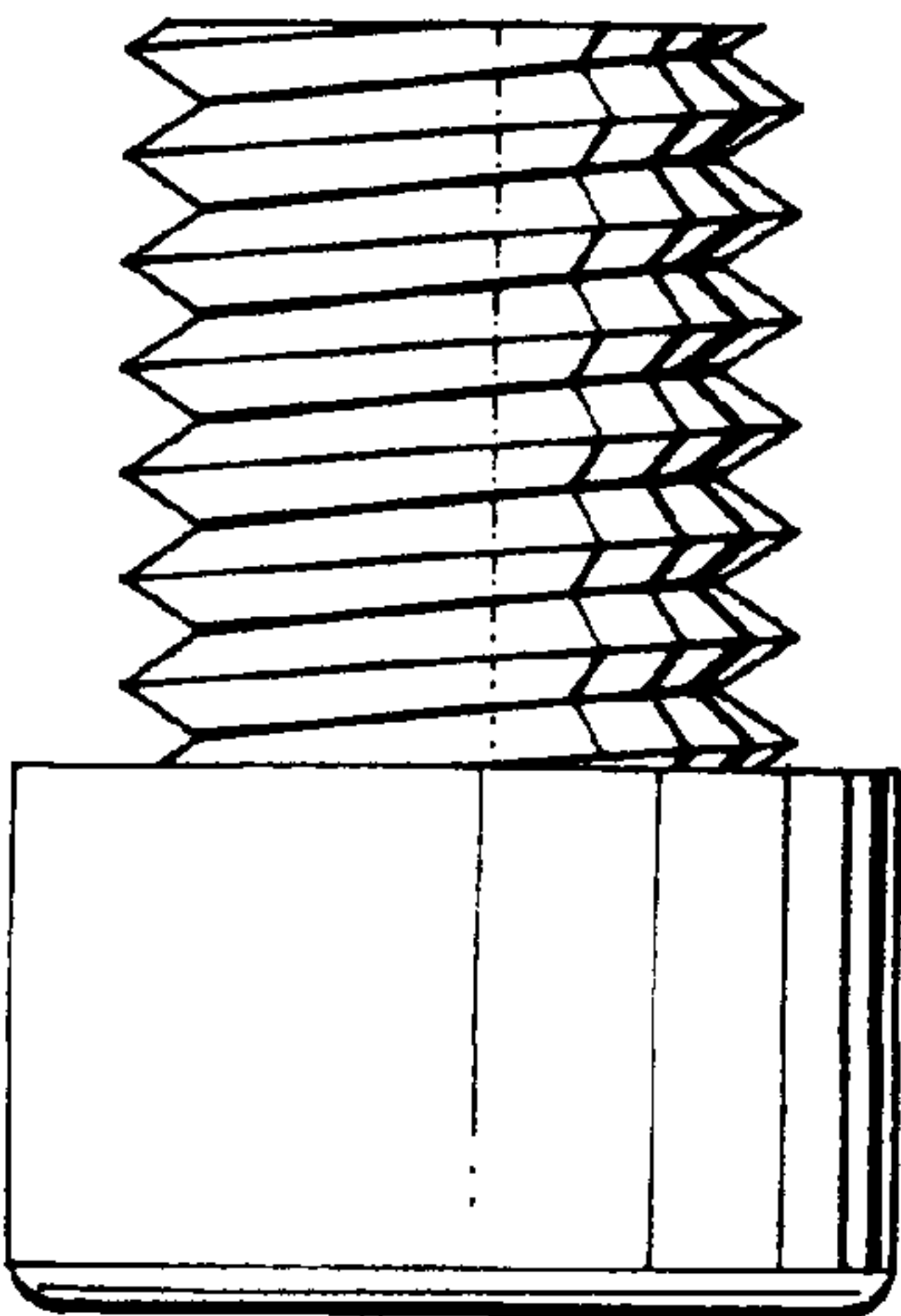


FIG. 25

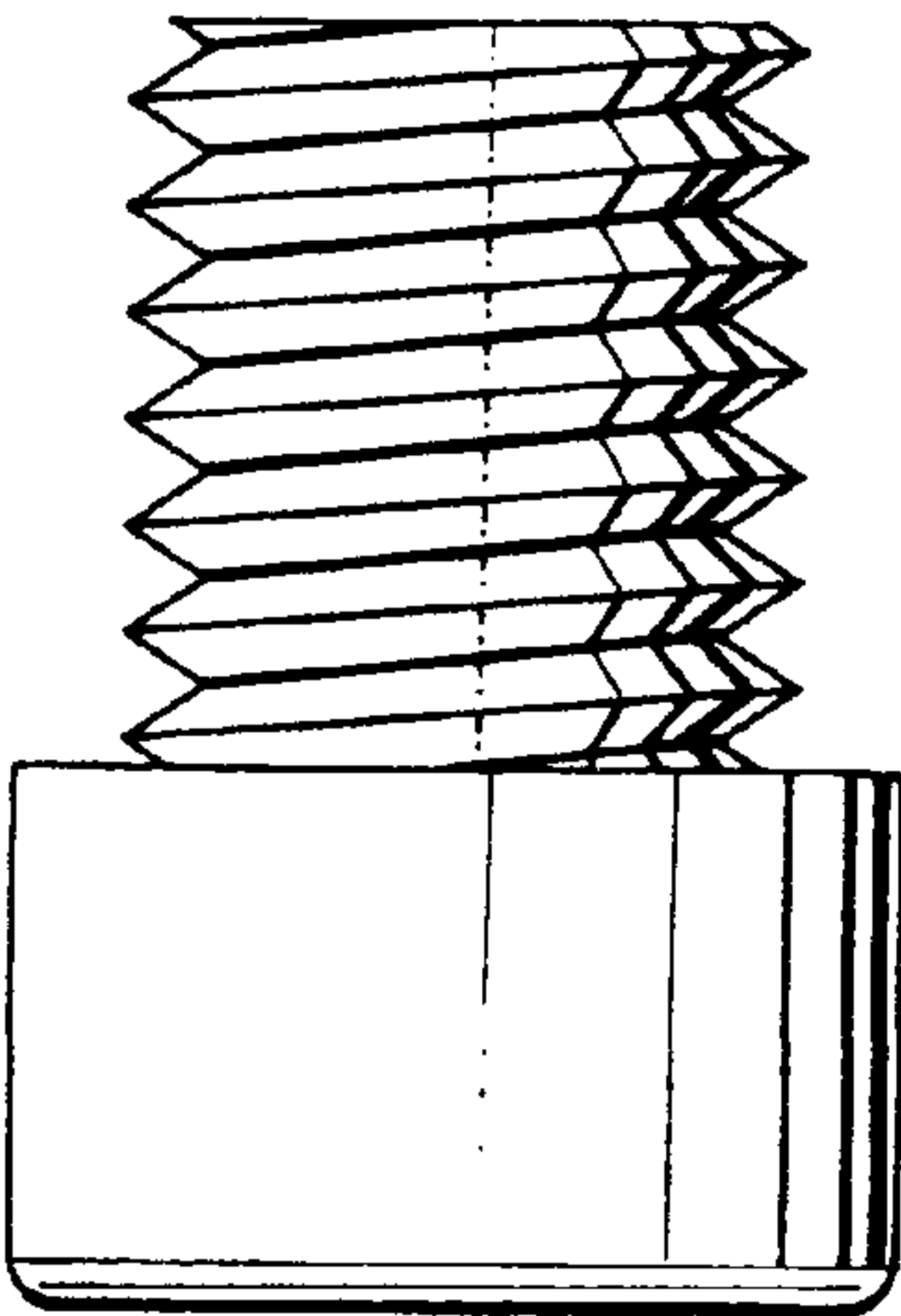


FIG. 26

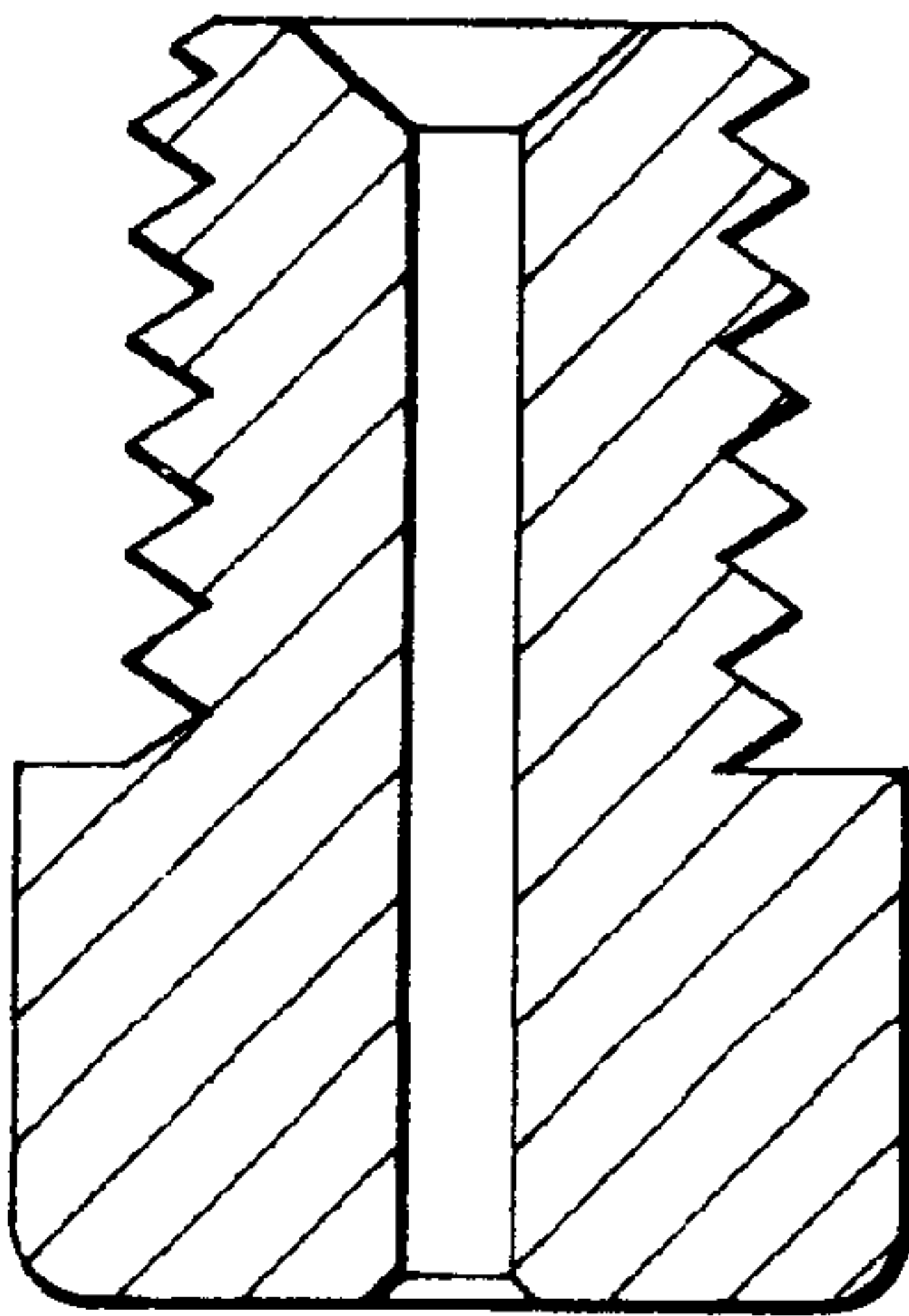


FIG. 27

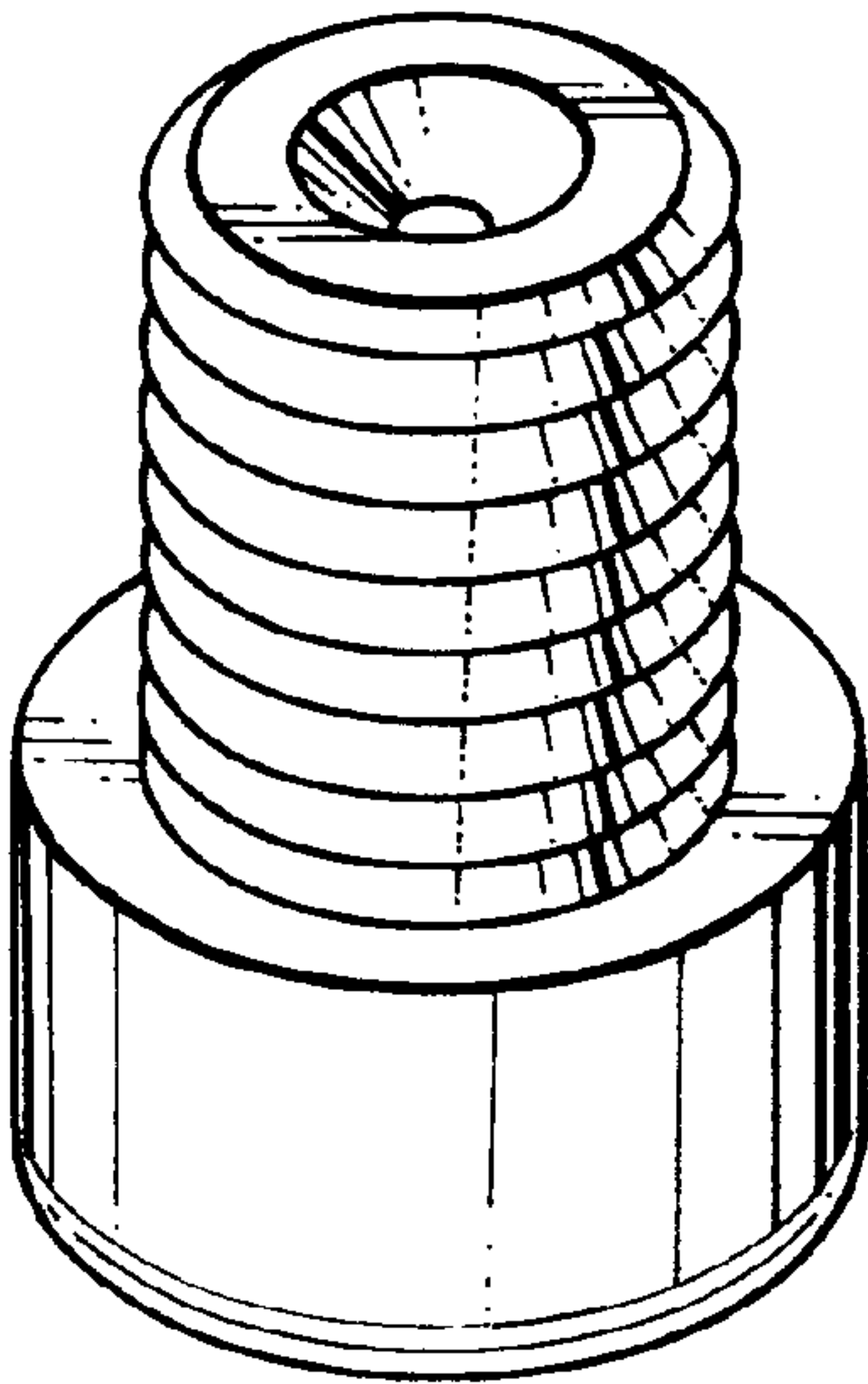


FIG. 28

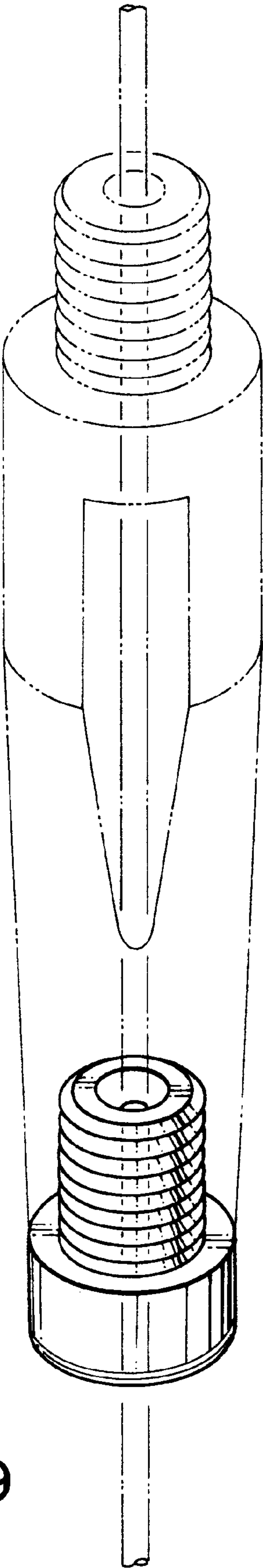


FIG. 29

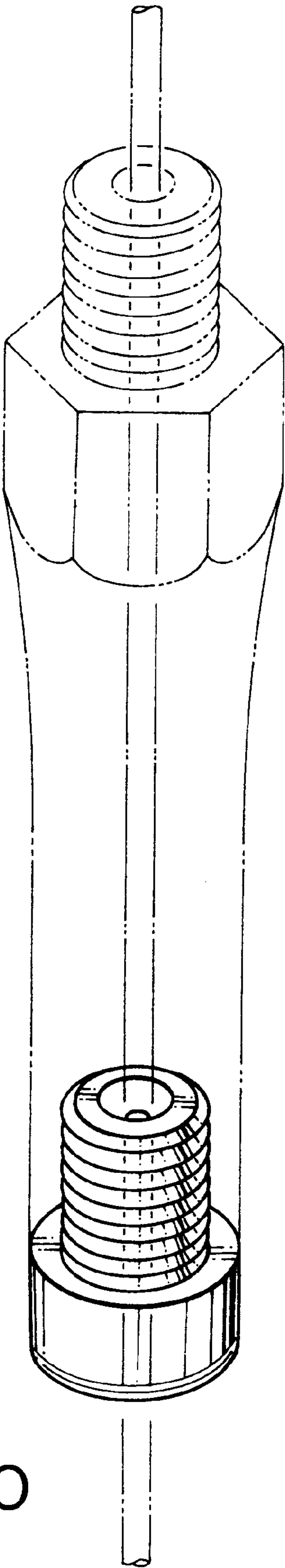


FIG. 30