US00D402298S

United States Patent [19]

Hidaka

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[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.

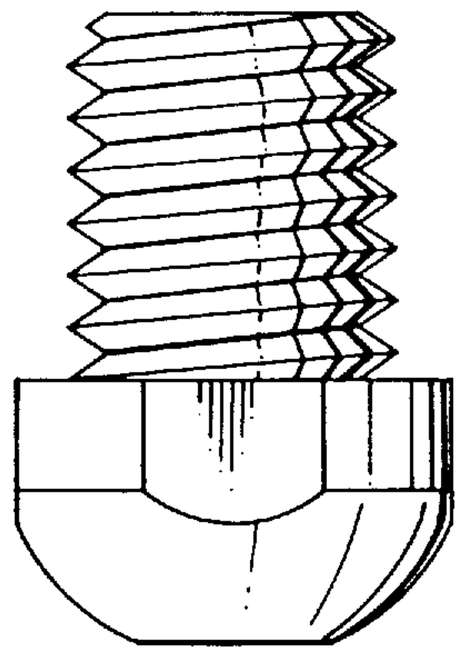
[57] **CLAIM**

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



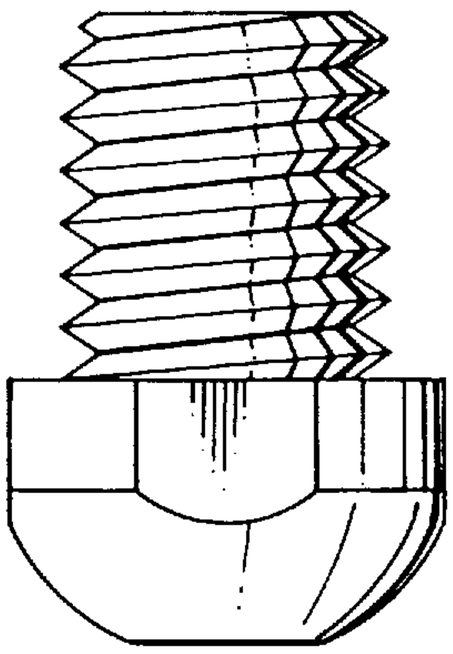


FIG. 1

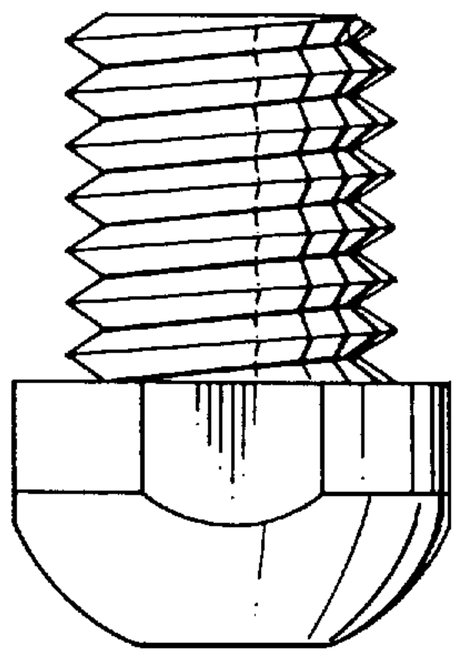


FIG. 2

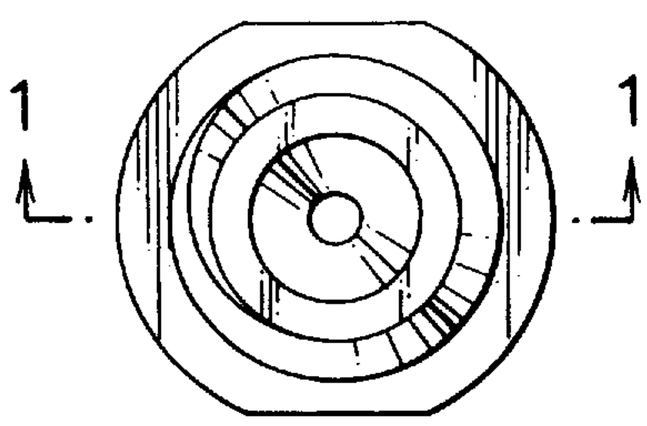


FIG. 3

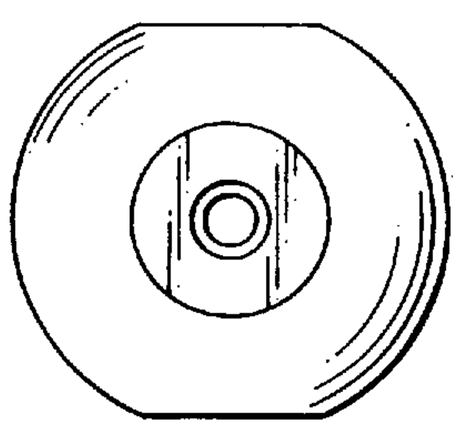


FIG. 4

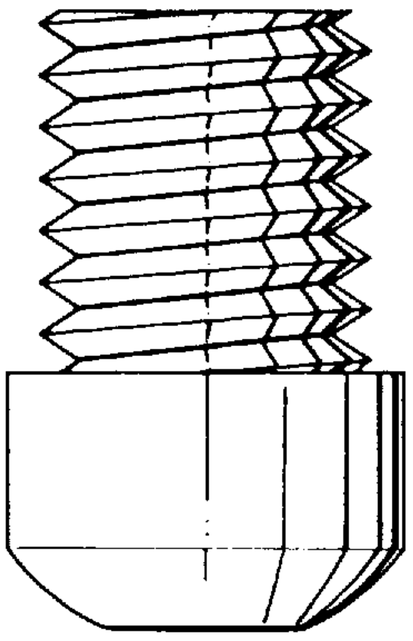


FIG. 5

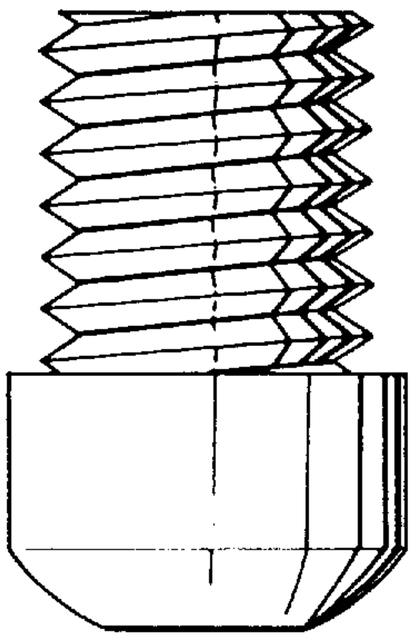


FIG. 6

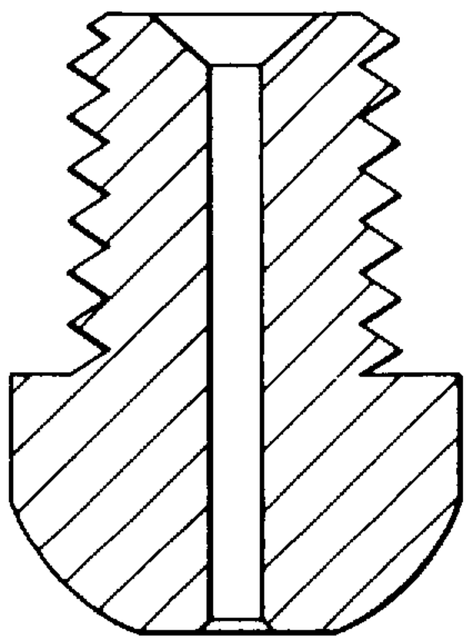
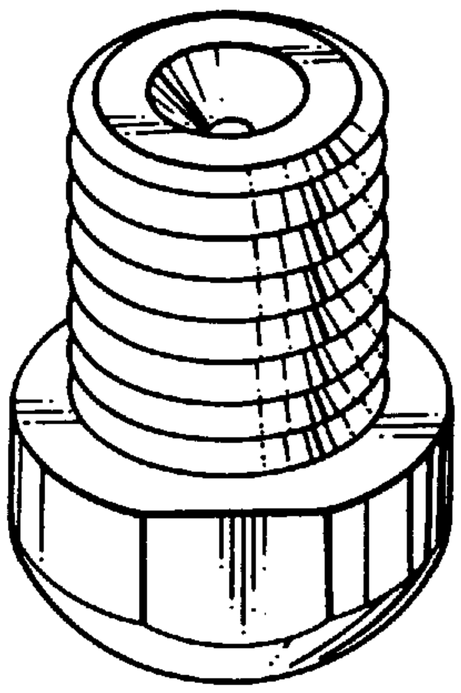


FIG. 7



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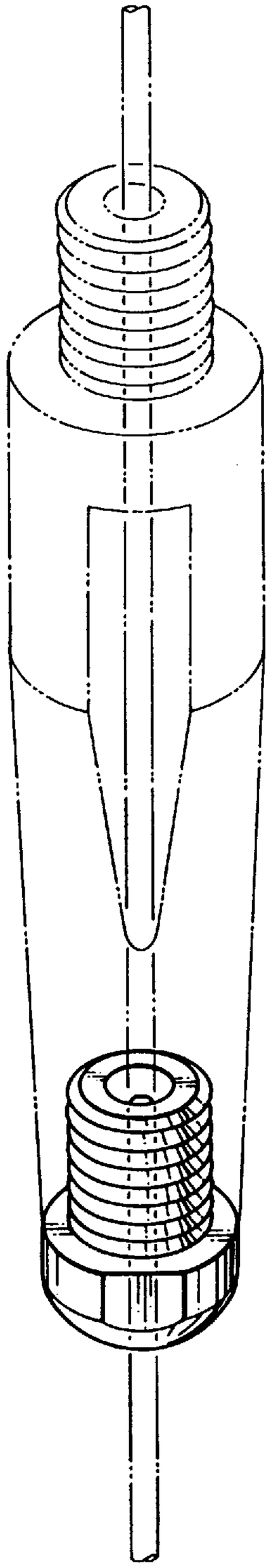


FIG. 9

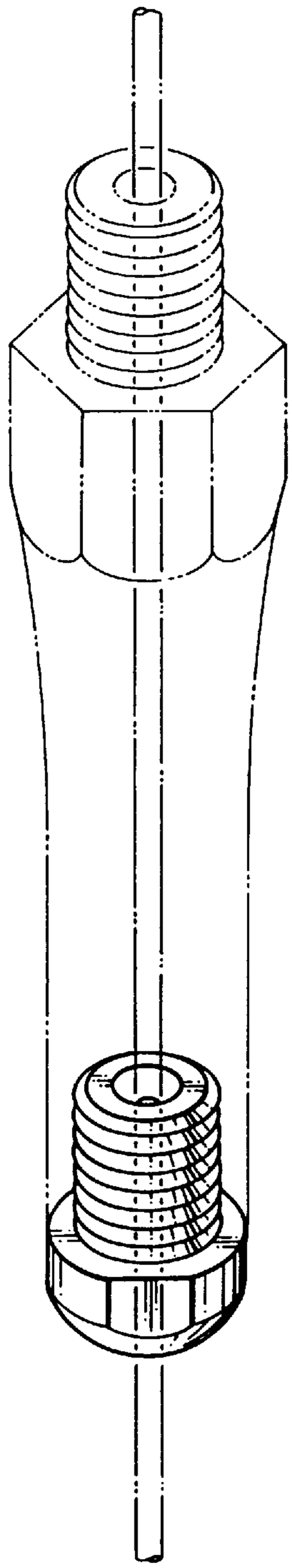


FIG. 10

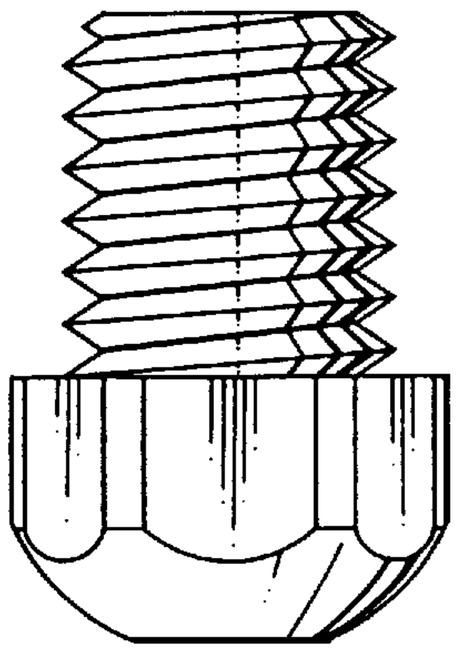


FIG. 11

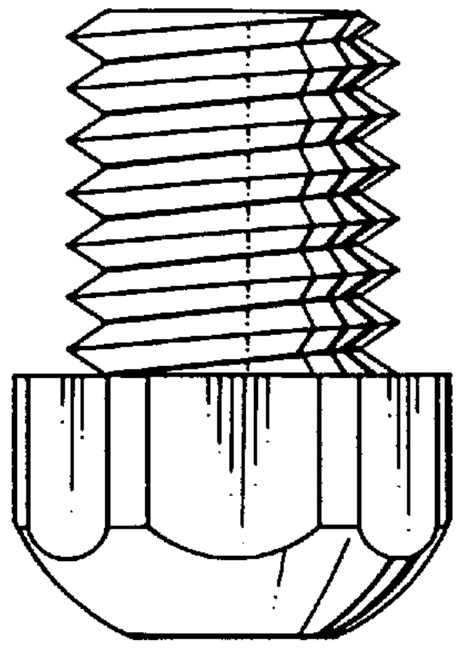


FIG. 12

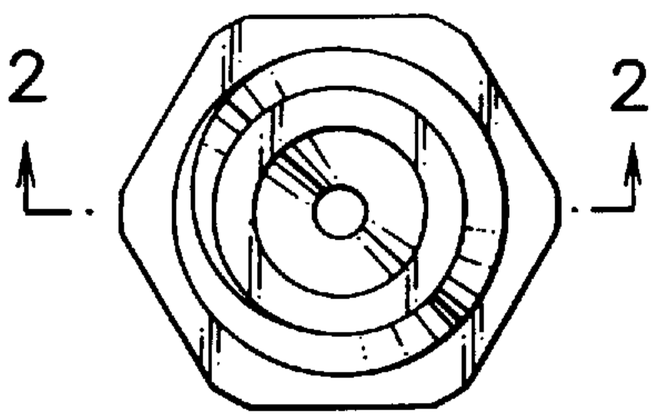


FIG. 13

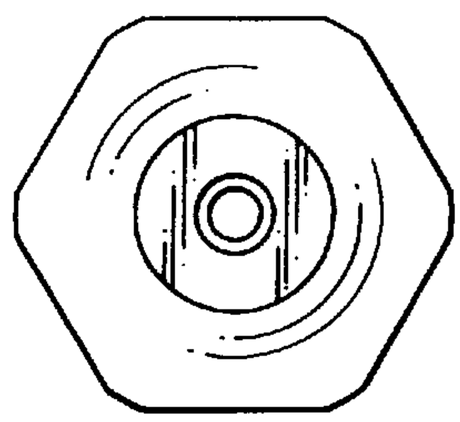


FIG. 14

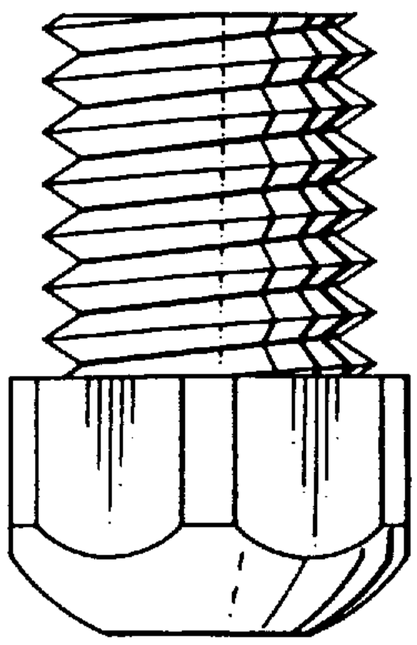


FIG. 15

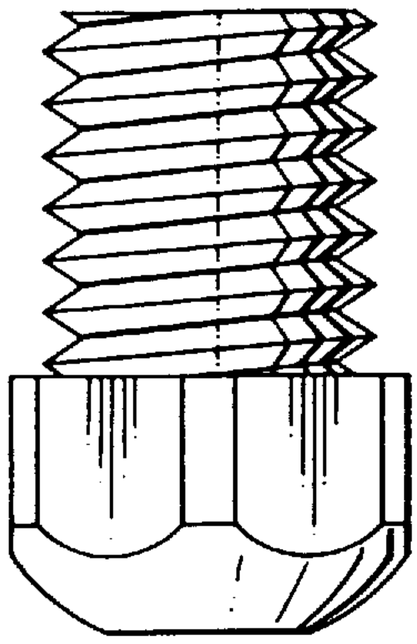


FIG. 16

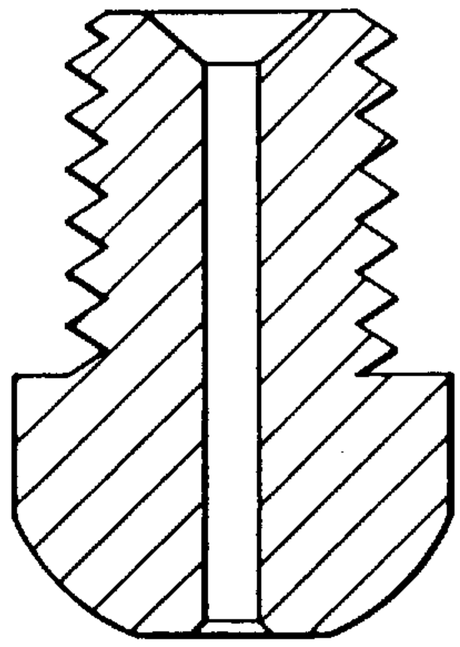


FIG. 17

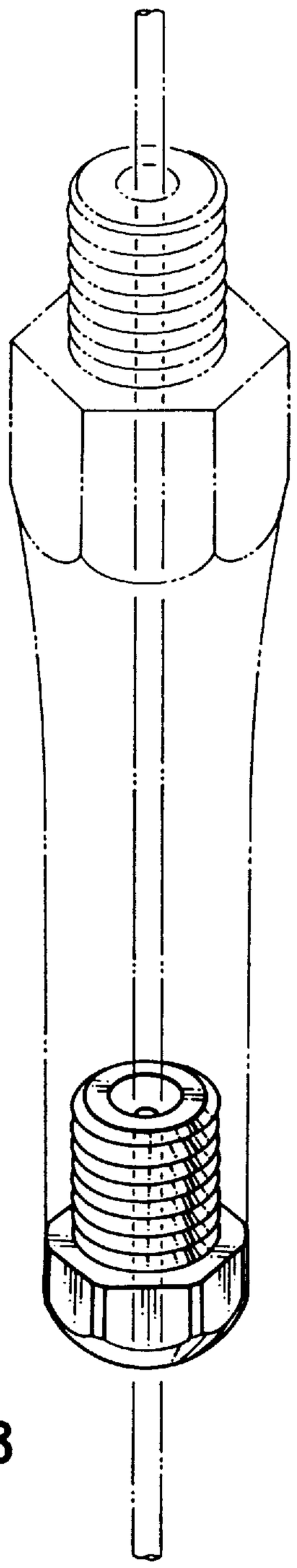


FIG. 18

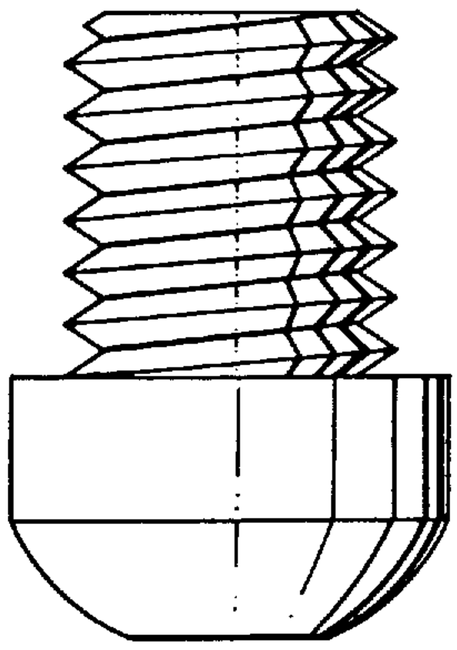


FIG. 19

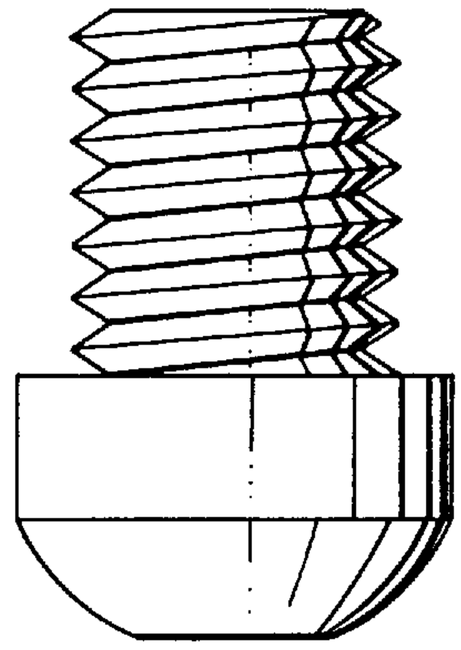
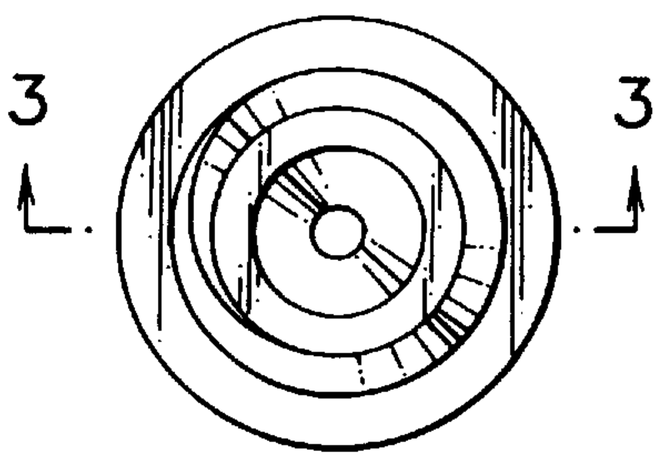


FIG. 20



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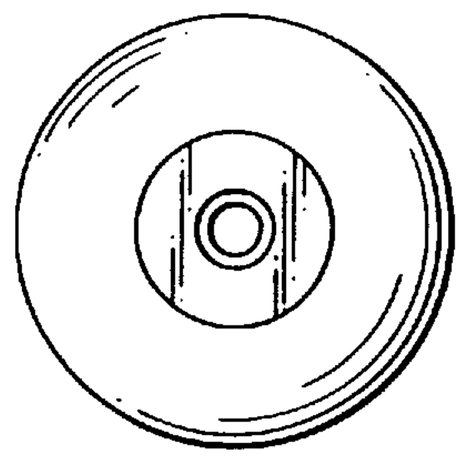
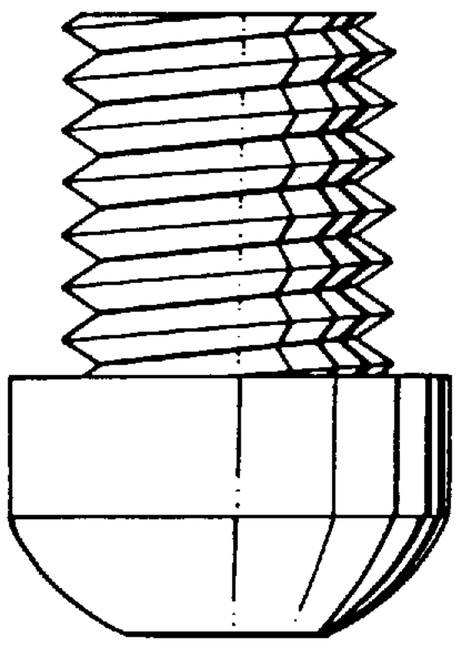


FIG. 22



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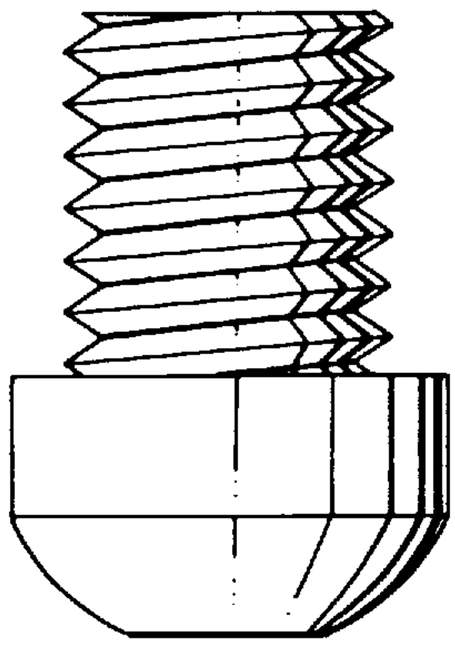

FIG. 24

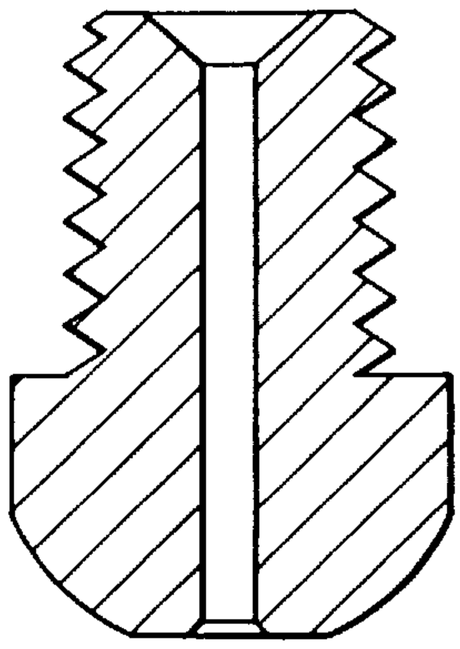

FIG. 25

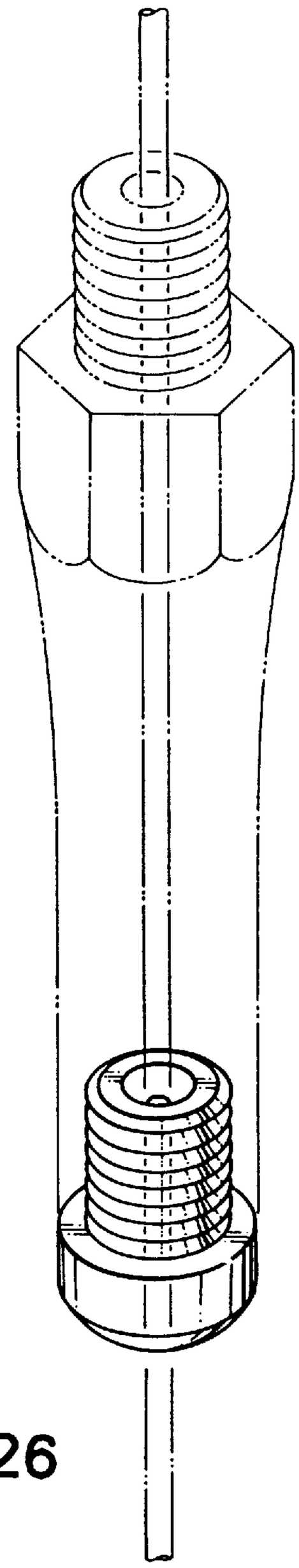

FIG. 26

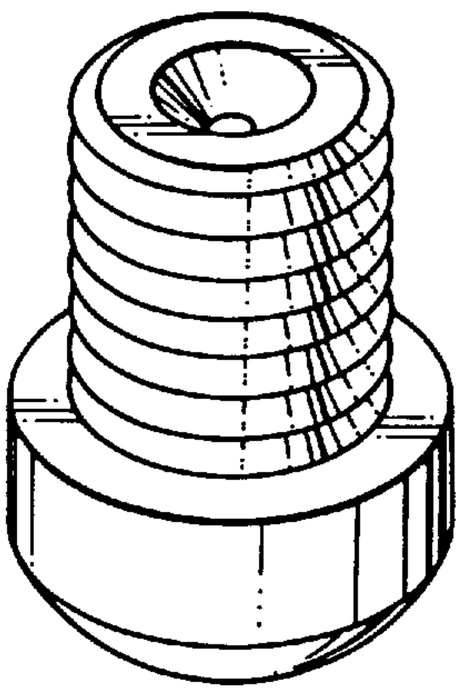

FIG. 27

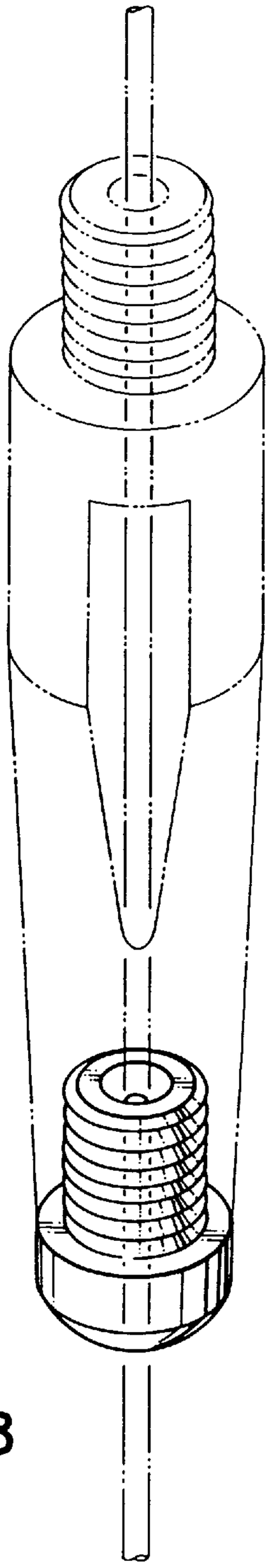

FIG. 28