



US00D877353S

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

(10) **Patent No.:** **US D877,353 S**
(45) **Date of Patent:** **** Mar. 3, 2020**

(54) **COMBINED CELL TRANSFER NOZZLE AND PIPETTE TIP FOR CELL CLUSTERING**

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(72) Inventor: **Saburo Ito**, Shizuoka-ken (JP)

(73) Assignee: **YAMAHA HATSUDOKI KABUSHIKI KAISHA** (JP)

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

(21) Appl. No.: **29/665,180**

(22) Filed: **Oct. 1, 2018**

Related U.S. Application Data

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(30) **Foreign Application Priority Data**

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(51) **LOC (12) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/222**

(58) **Field of Classification Search**

USPC D24/107, 108, 113, 114, 121, 133, 184,
D24/186, 216, 222, 224, 225, 226, 227,
D24/228, 229, 230, 231, 233

(Continued)

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(74) *Attorney, Agent, or Firm* — Ostrolenk Faber LLP

(57) **CLAIM**

The ornamental design for a combined cell transfer nozzle and pipette tip for cell clustering, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a combined cell transfer nozzle and pipette tip for cell clustering showing a first embodiment of my new design;

FIG. 2 is a side view thereof, wherein the view from every lateral side thereof is identical;

FIG. 3 is a front end view thereof;

FIG. 4 is a rear end view thereof;

FIG. 5 is a cross-sectional view thereof along line 5-5 in FIG. 2;

FIG. 6 is an enlarged fragmentary side view thereof of fragment 6-6 in FIG. 2, wherein the view from every lateral side thereof is identical and the jagged line indicates the rear end of the fragment;

FIG. 7 is an end view of fragment 6-6 in FIG. 2;

FIG. 8 is a front perspective view of fragment 6-6 in FIG. 2 and the jagged line indicates the rear end of the fragment and the jagged line indicates the rear end of the fragment;

FIG. 9 is a perspective view of the first embodiment showing an alternate condition of the first embodiment of my new design;

FIG. 10 is a cross-sectional view thereof along line 10-10 in FIG. 9;

FIG. 11 is an enlarged fragmentary front perspective view of fragment 11-11 in the same alternate configuration as in FIG. 9 and the jagged line indicates the rear end of the fragment;

FIG. 12 is a front perspective view of a combined cell transfer nozzle and pipette tip for cell clustering showing a second embodiment of my new design;

FIG. 13 is a side view thereof, wherein the view from every side thereof is identical;

FIG. 14 is a front end view thereof;

FIG. 15 is a rear end view thereof;

FIG. 16 is a cross-sectional view thereof along line 16-16 in FIG. 13;

FIG. 17 is an enlarged fragmentary side view thereof of fragment 17-17 in FIG. 13, wherein the view from every side thereof is identical and the jagged line indicates the rear end of the fragment;

FIG. 18 is an end view of the fragment in FIG. 17;

FIG. 19 is a front perspective view of the fragment in FIG. 17 and the jagged line indicates the rear end of the fragment;

FIG. 20 is a front perspective view of the second embodiment showing an alternate condition of the second embodiment of my new design;

FIG. 21 is a cross-sectional view thereof along line 21-21 in FIG. 20; and,

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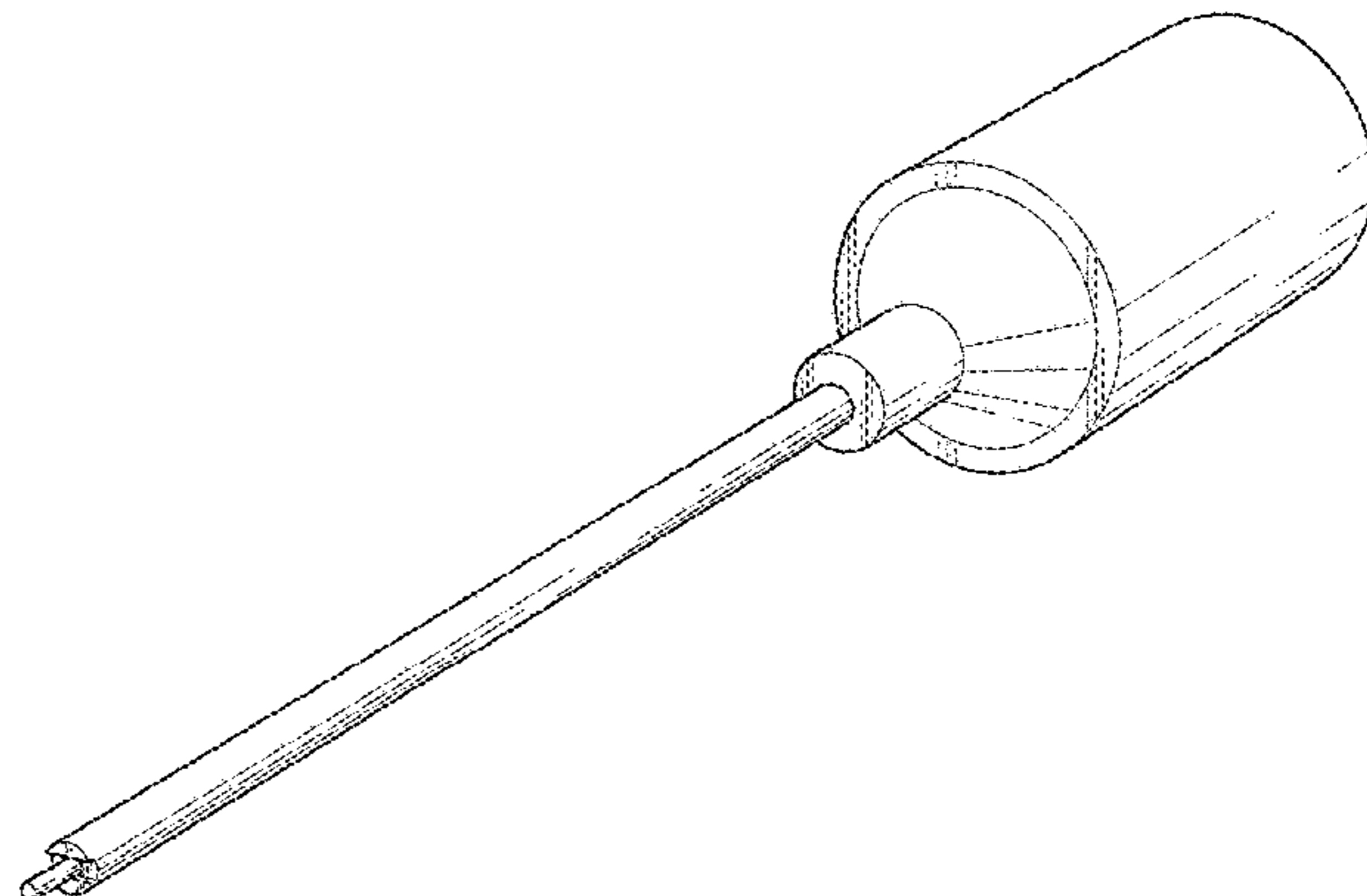
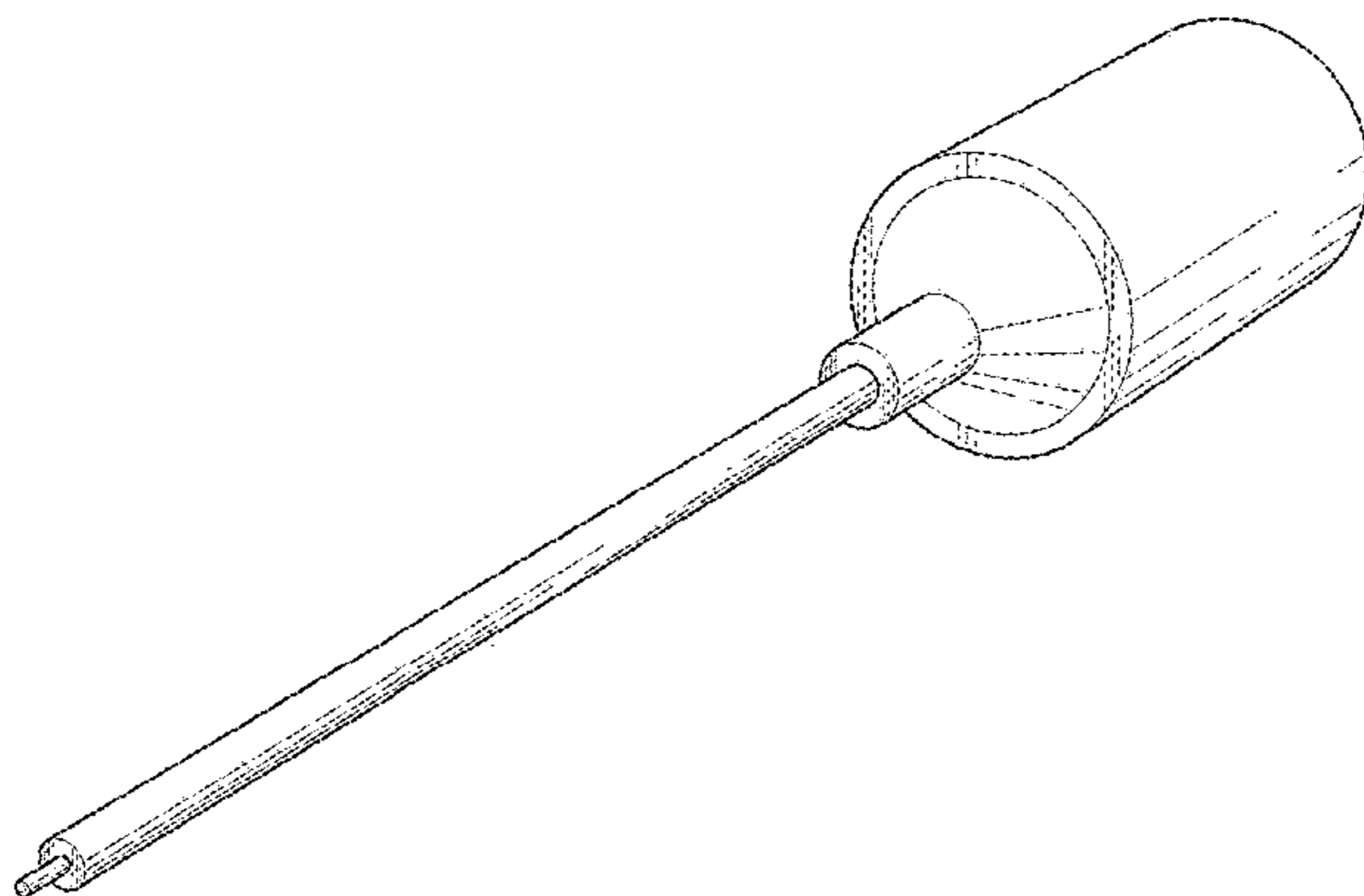


FIG. 22 is an enlarged fragmentary front perspective view of fragment 22-22 in the same alternate configuration of the second embodiment showing an alternate condition of the second embodiment as in FIG. 20 of my new design and the jagged line indicates the rear end of the fragment.

1 Claim, 22 Drawing Sheets

(58) **Field of Classification Search**

CPC B01F 13/0025; B01J 2219/00292; B01J 2220/64; B01L 3/14; B01L 3/508-50825; B01L 3/52-523

See application file for complete search history.

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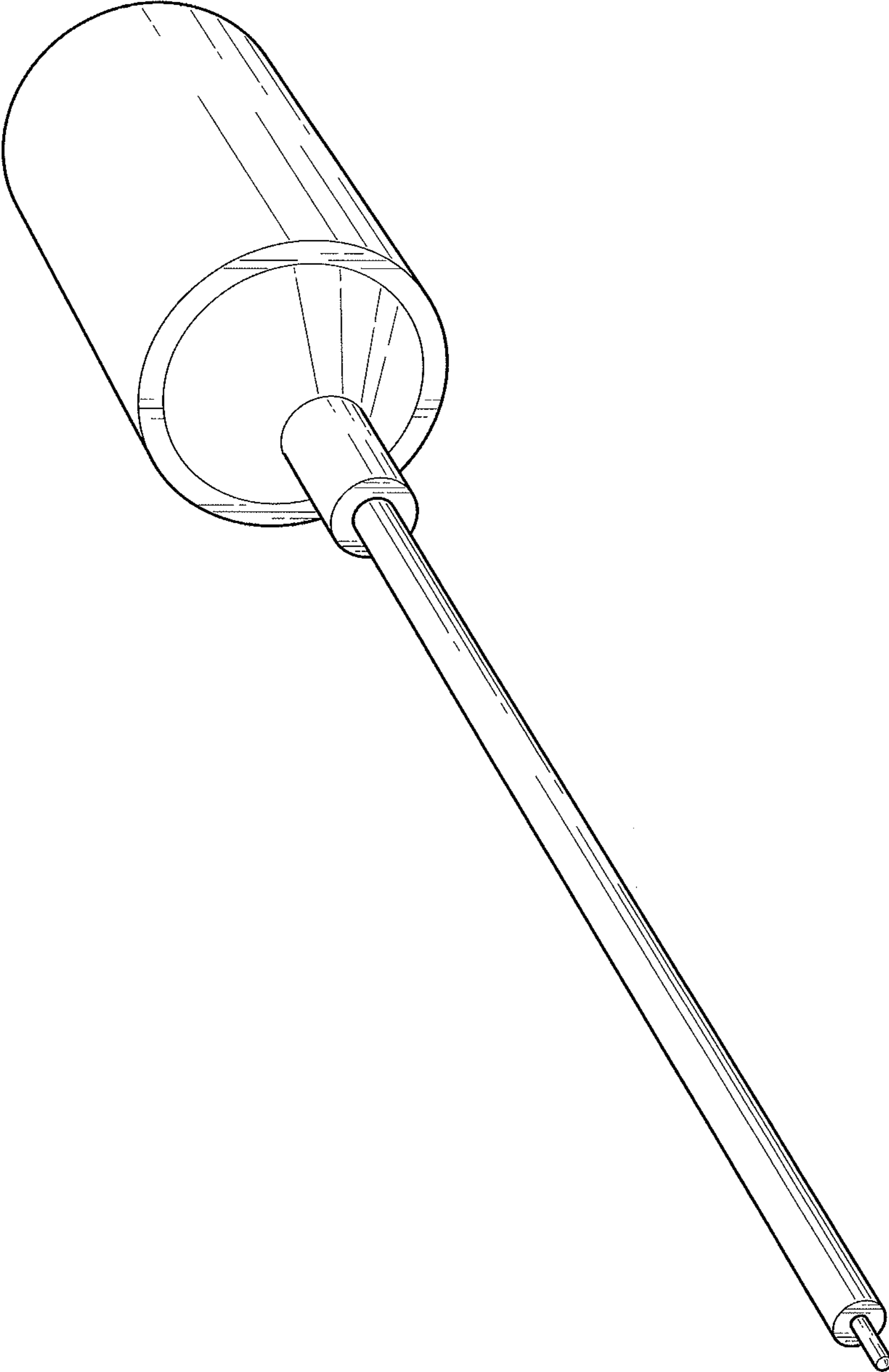


Fig.1

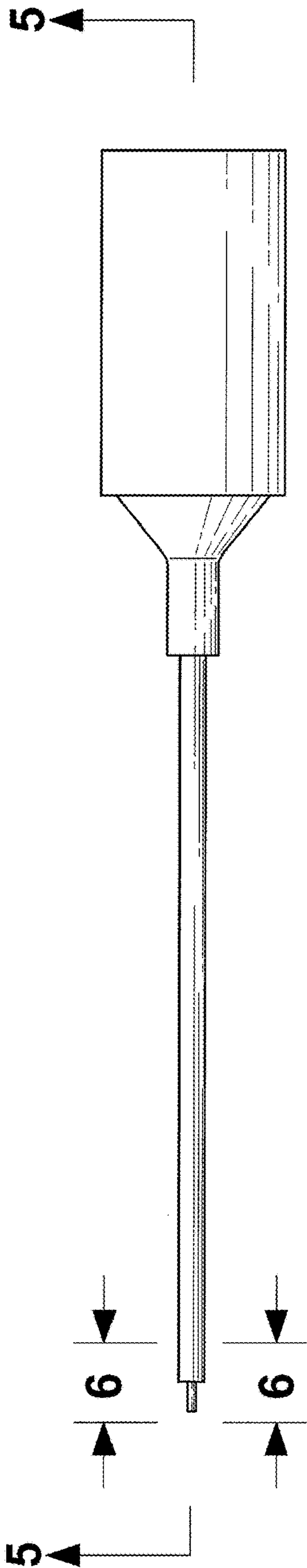


Fig.2

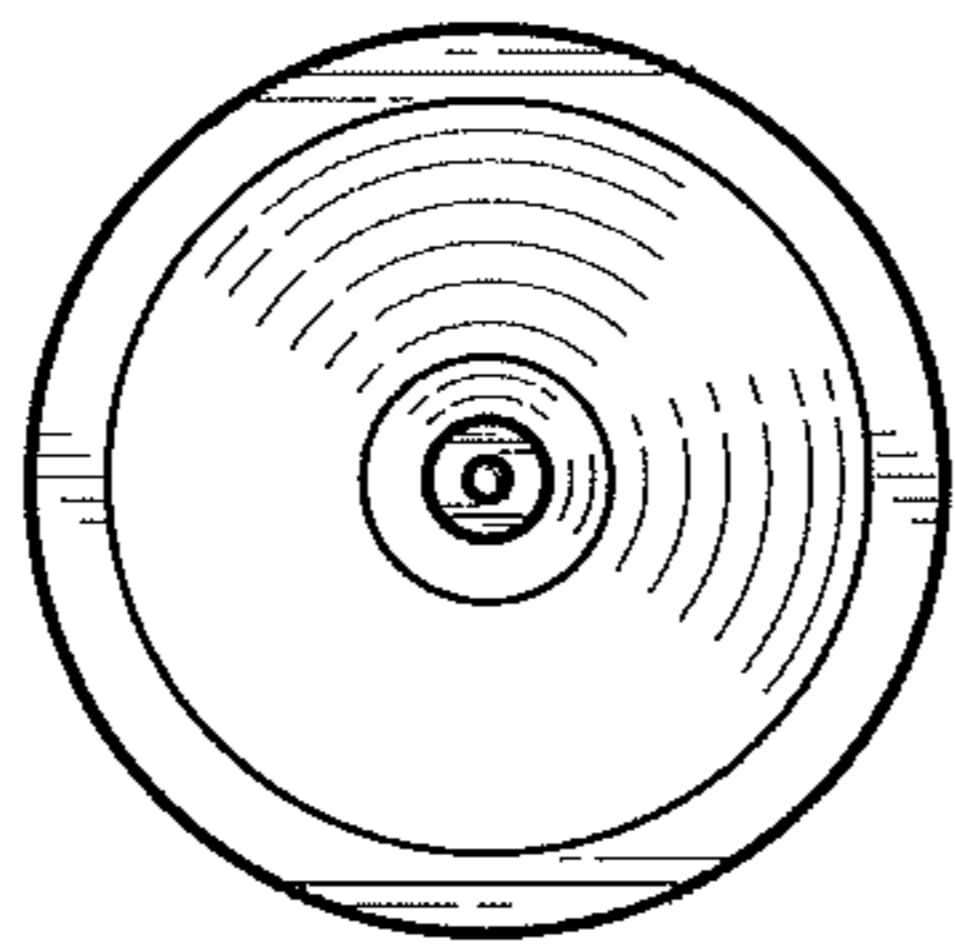


Fig. 3

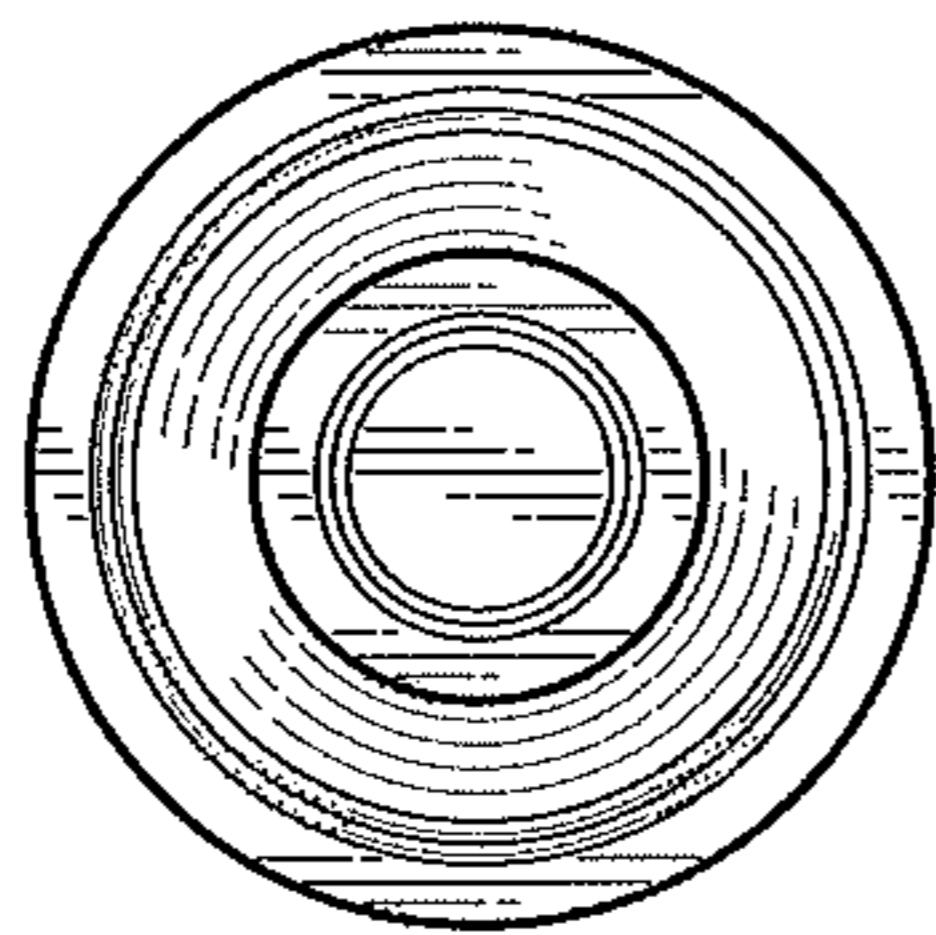


Fig.4

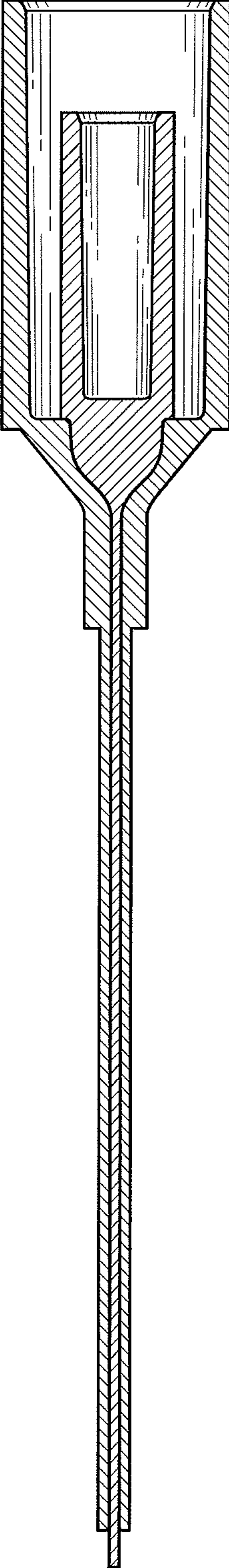


Fig.5

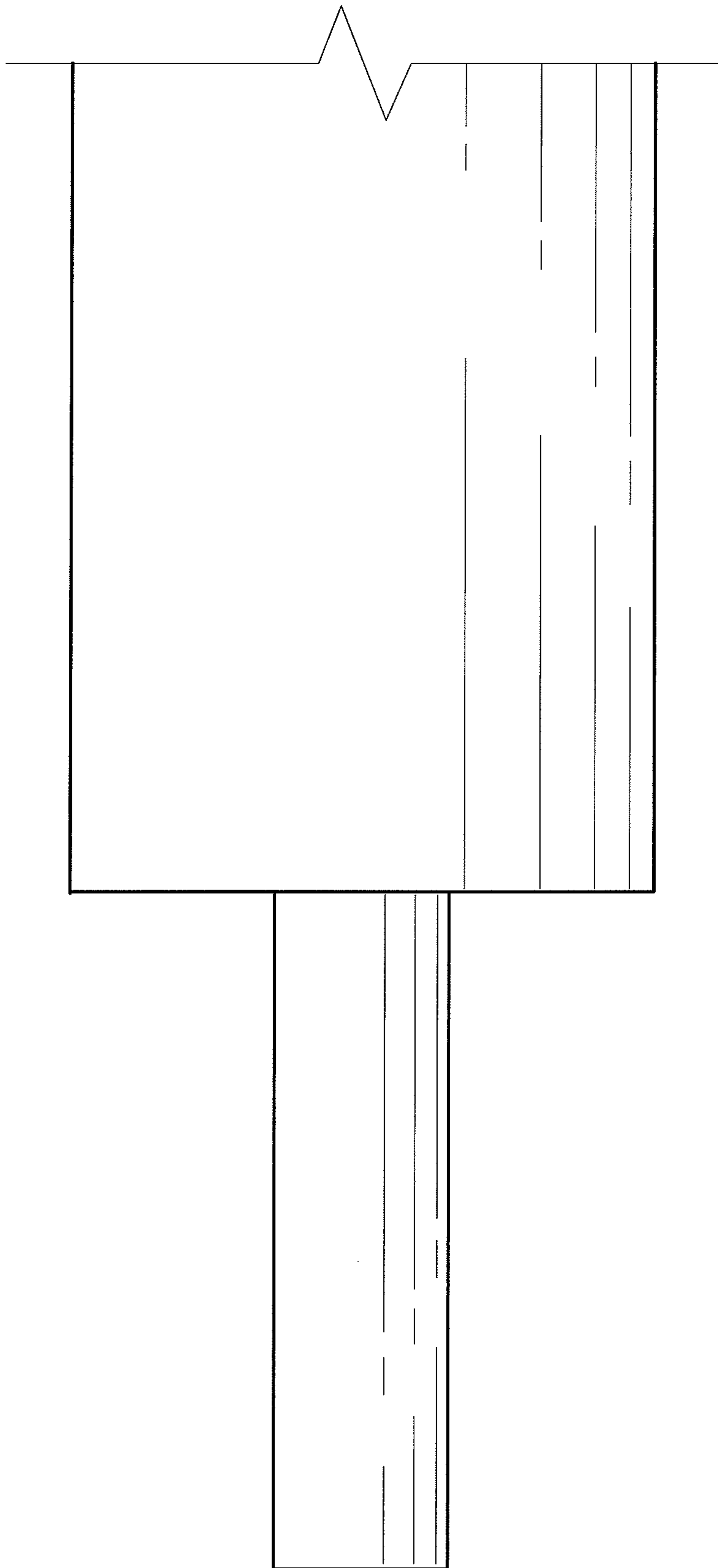


Fig.6

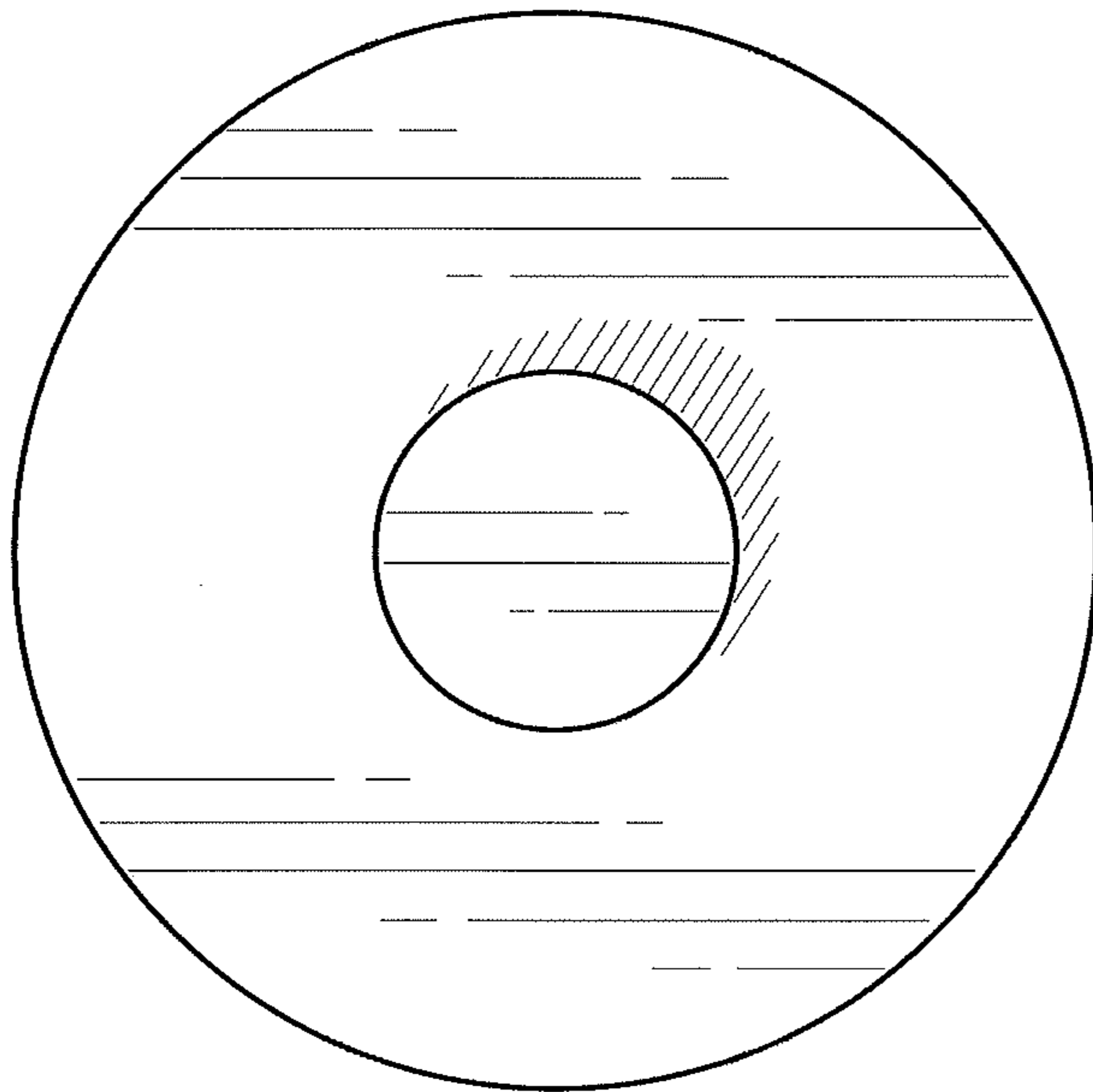


Fig.7

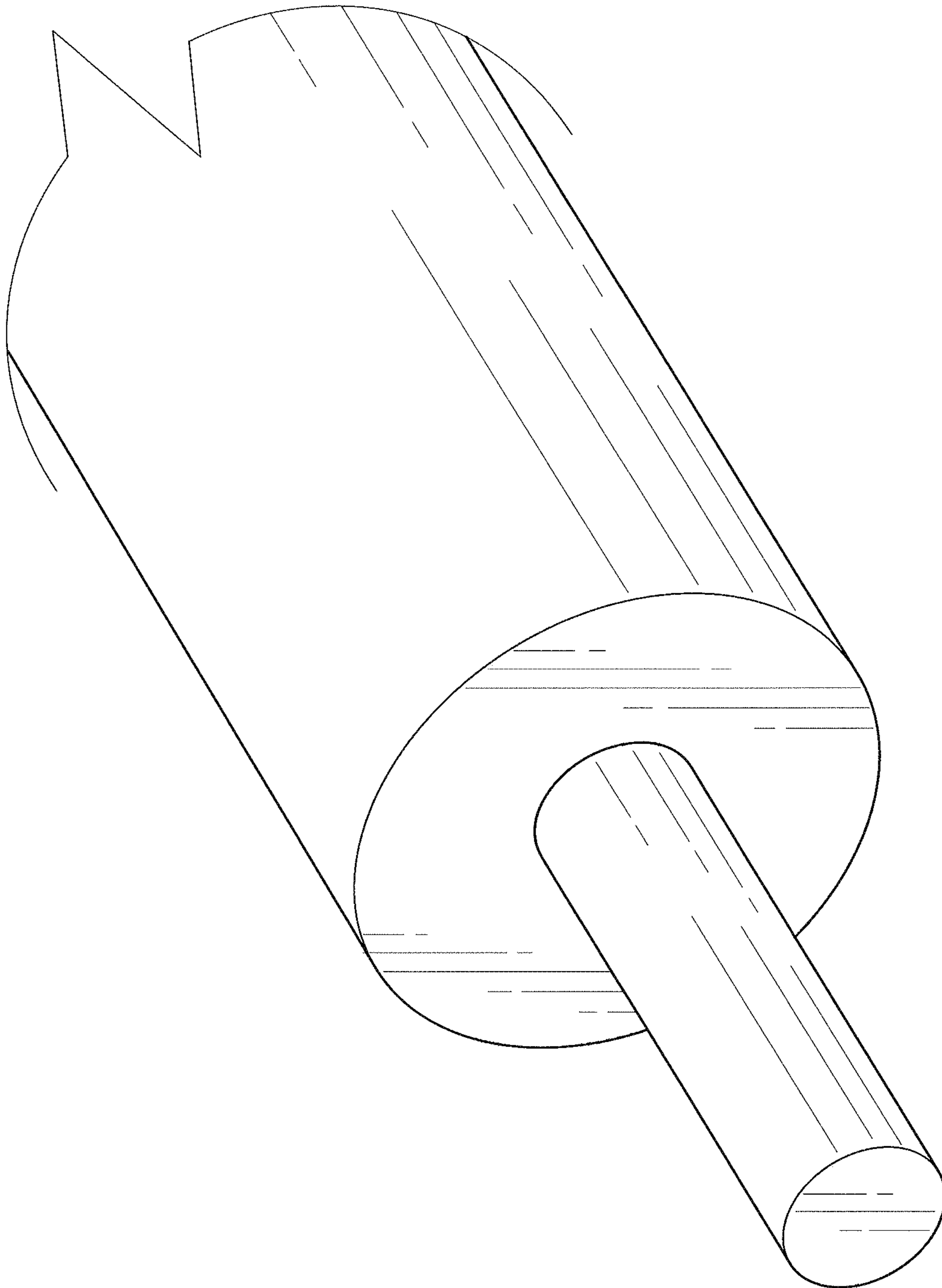


Fig. 8

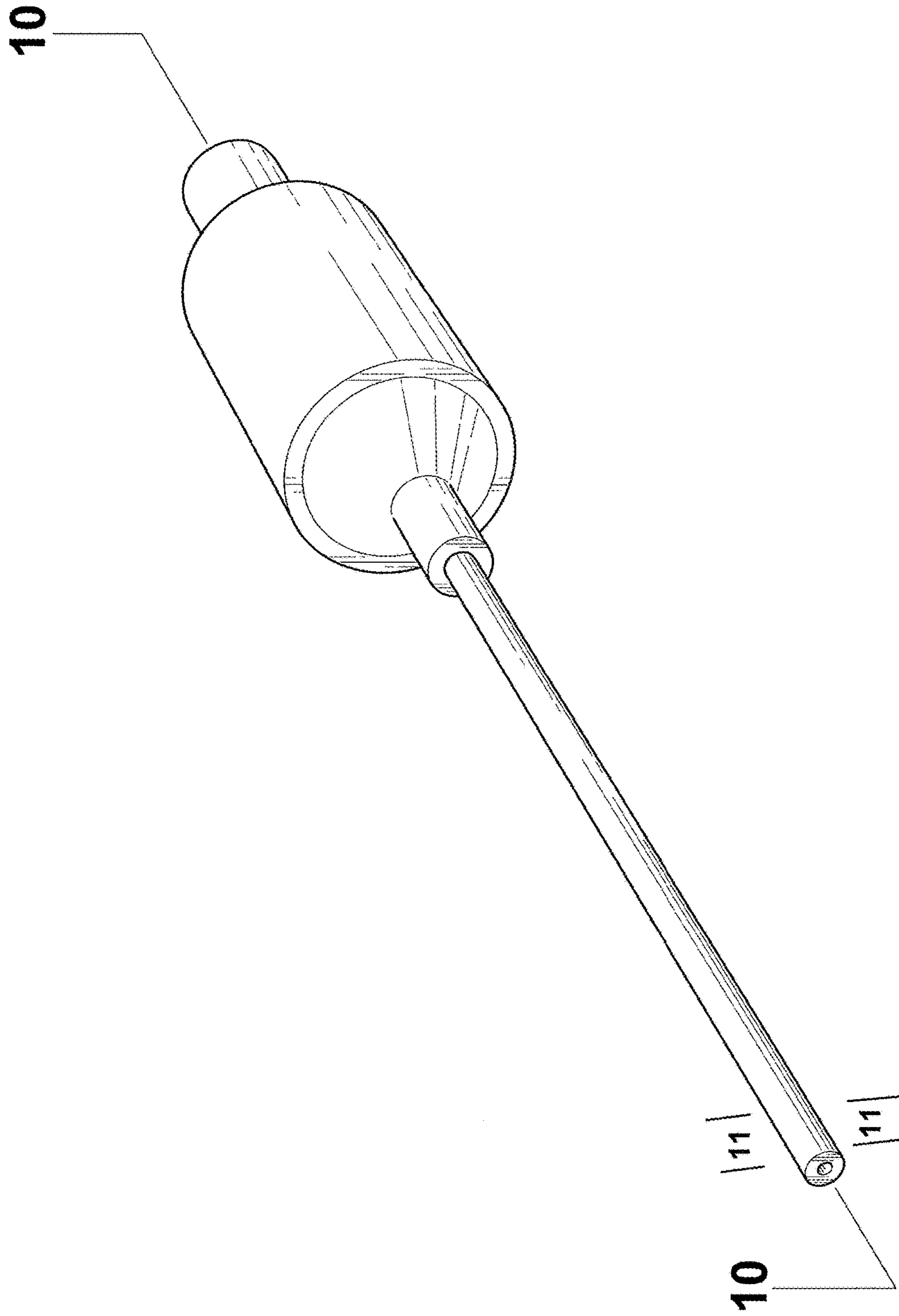


Fig.9

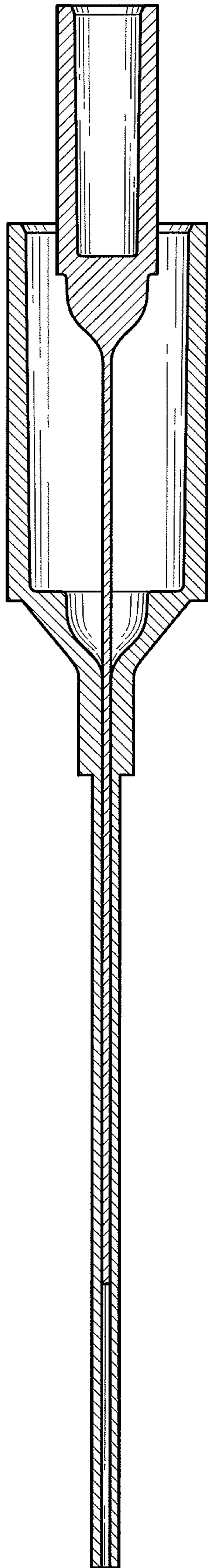


Fig.10

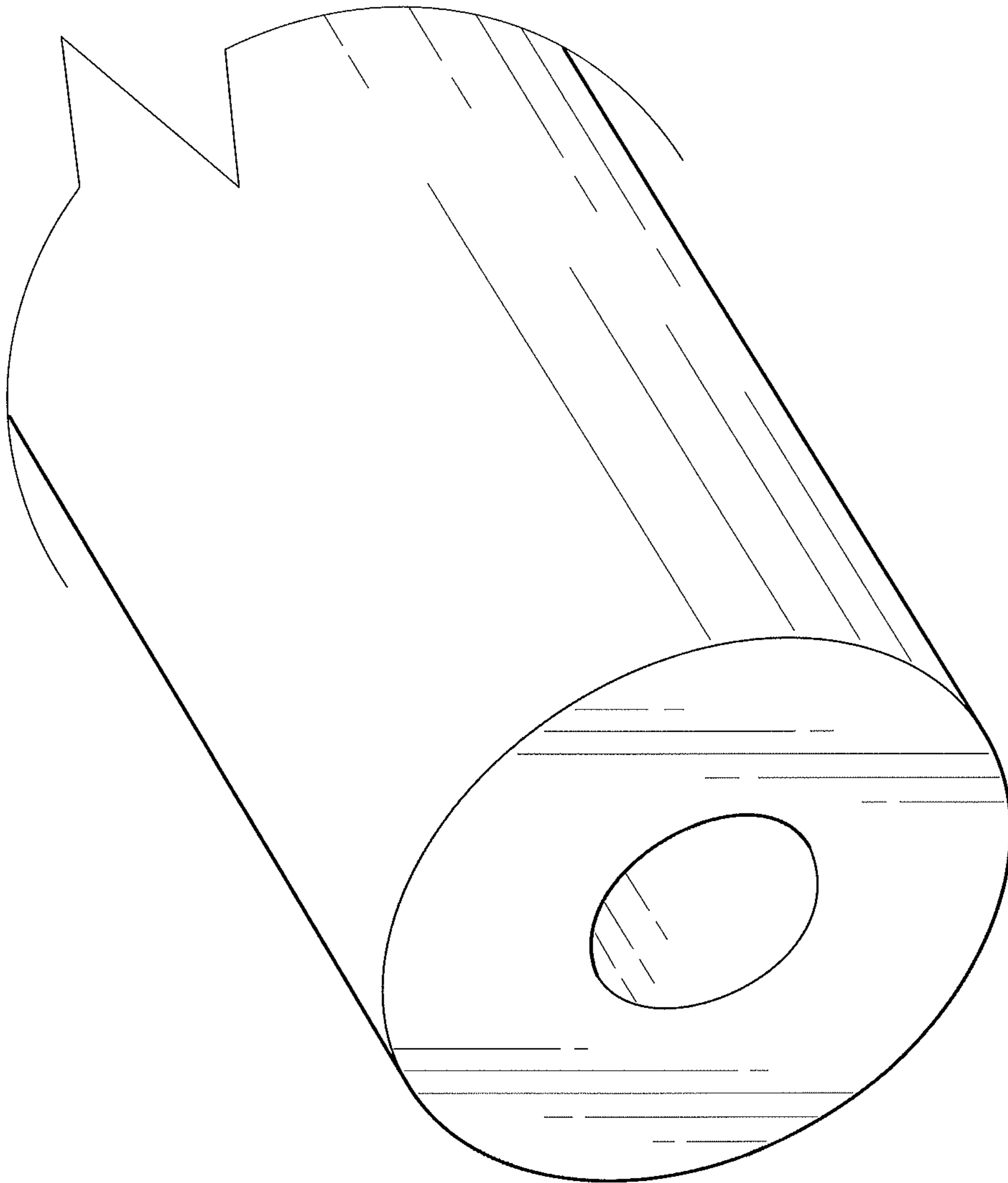


Fig.11

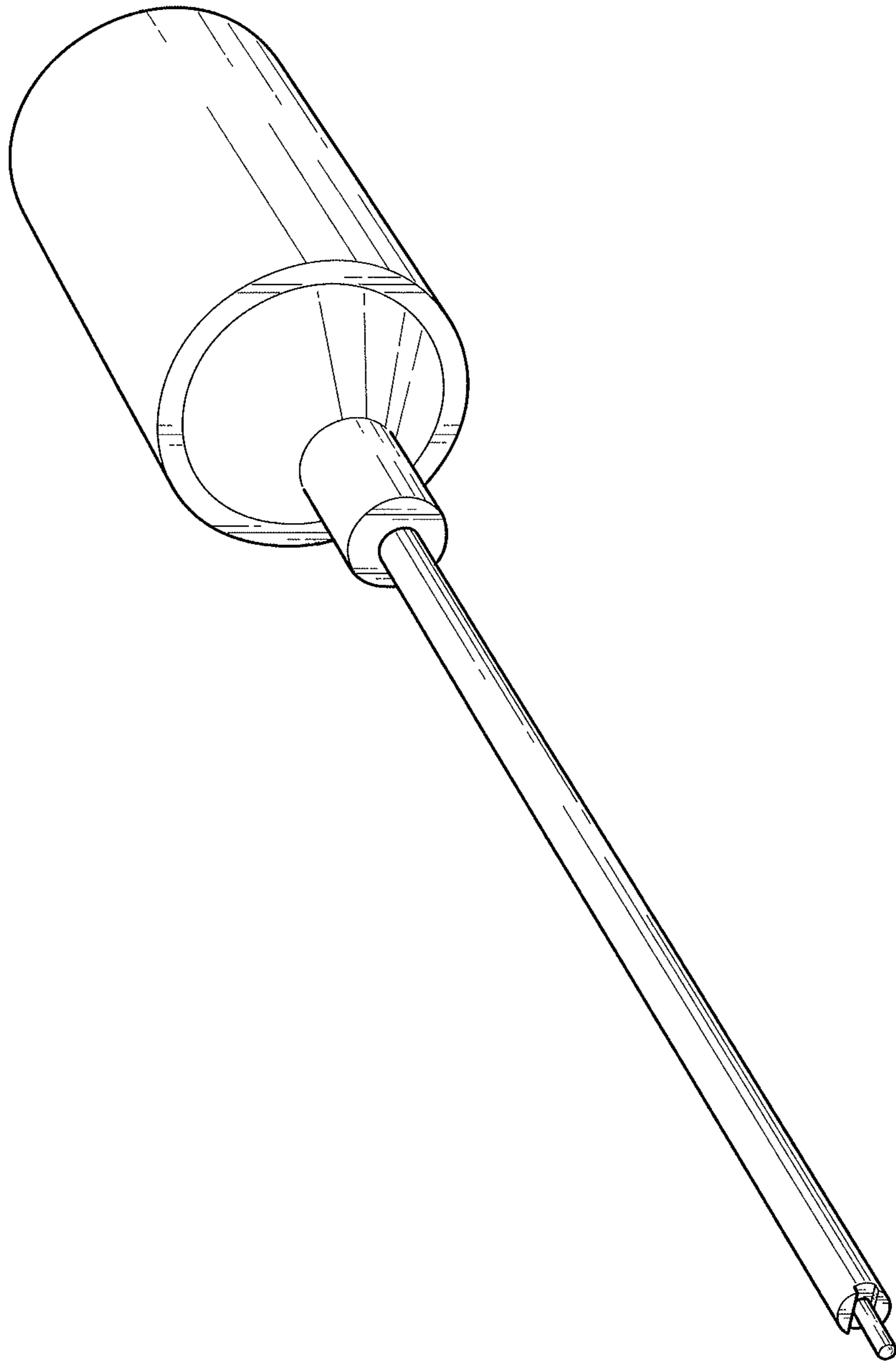


Fig.12

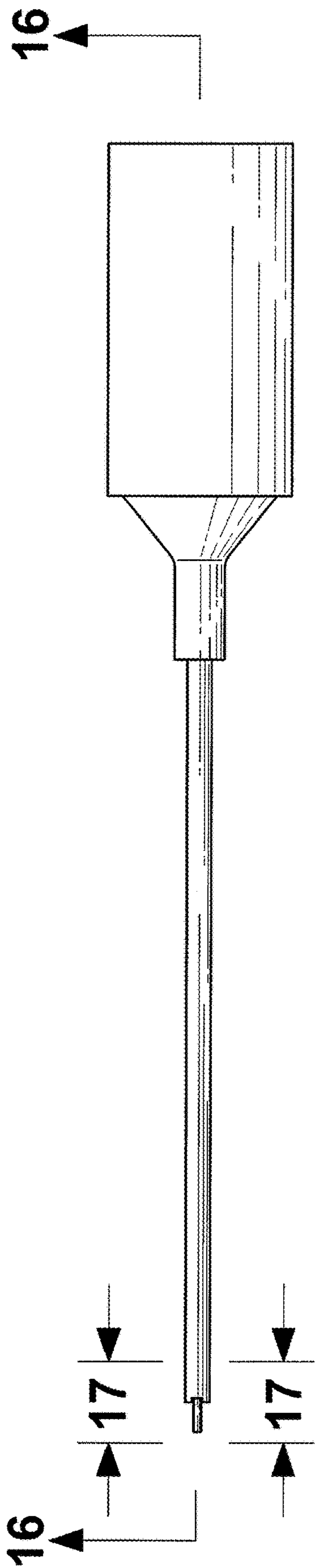


Fig.13

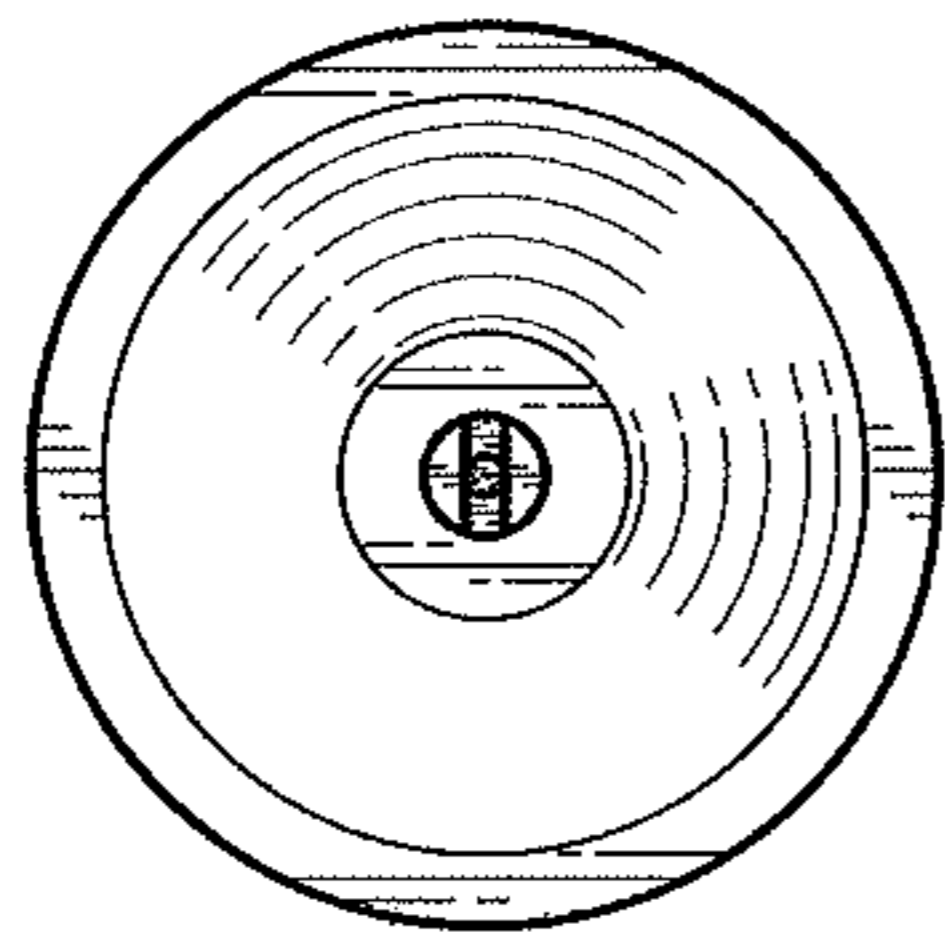


Fig.14

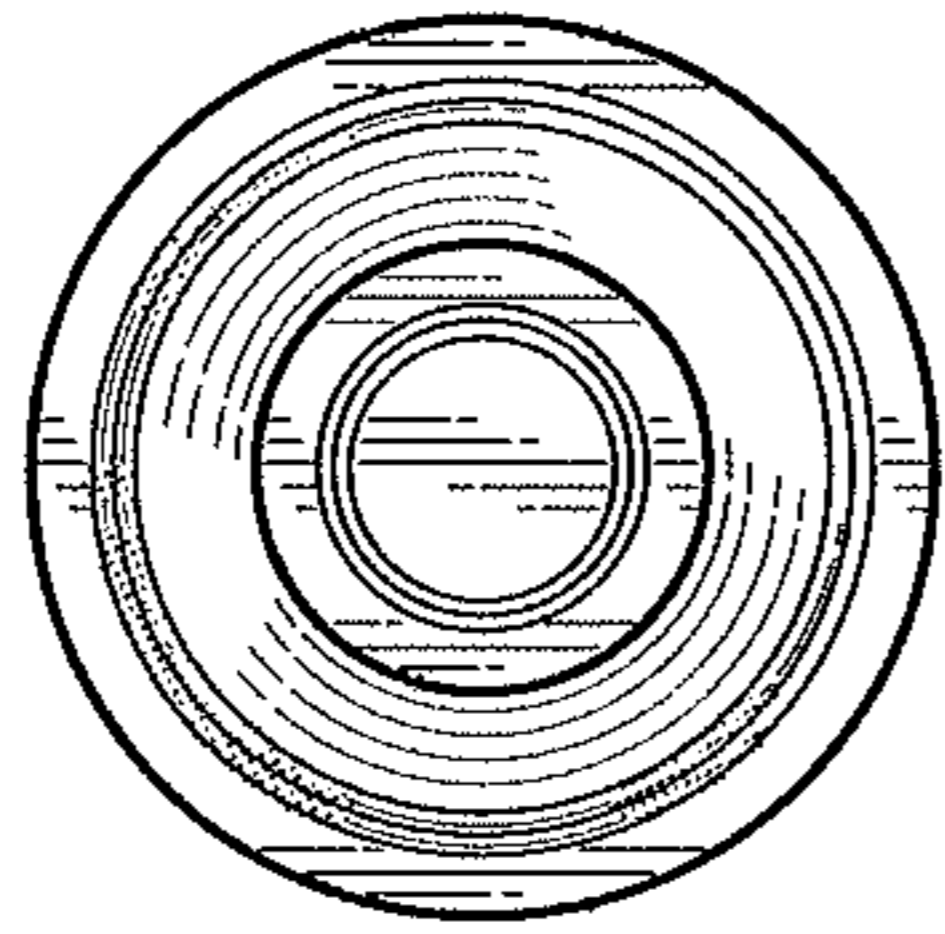


Fig.15

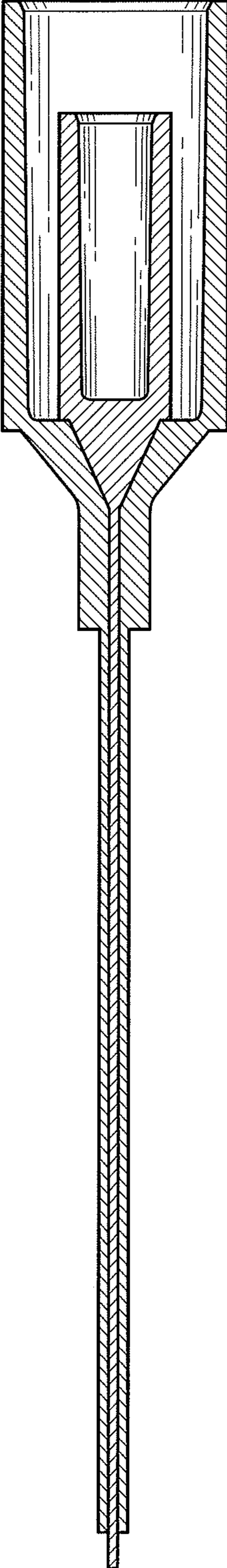


Fig.16

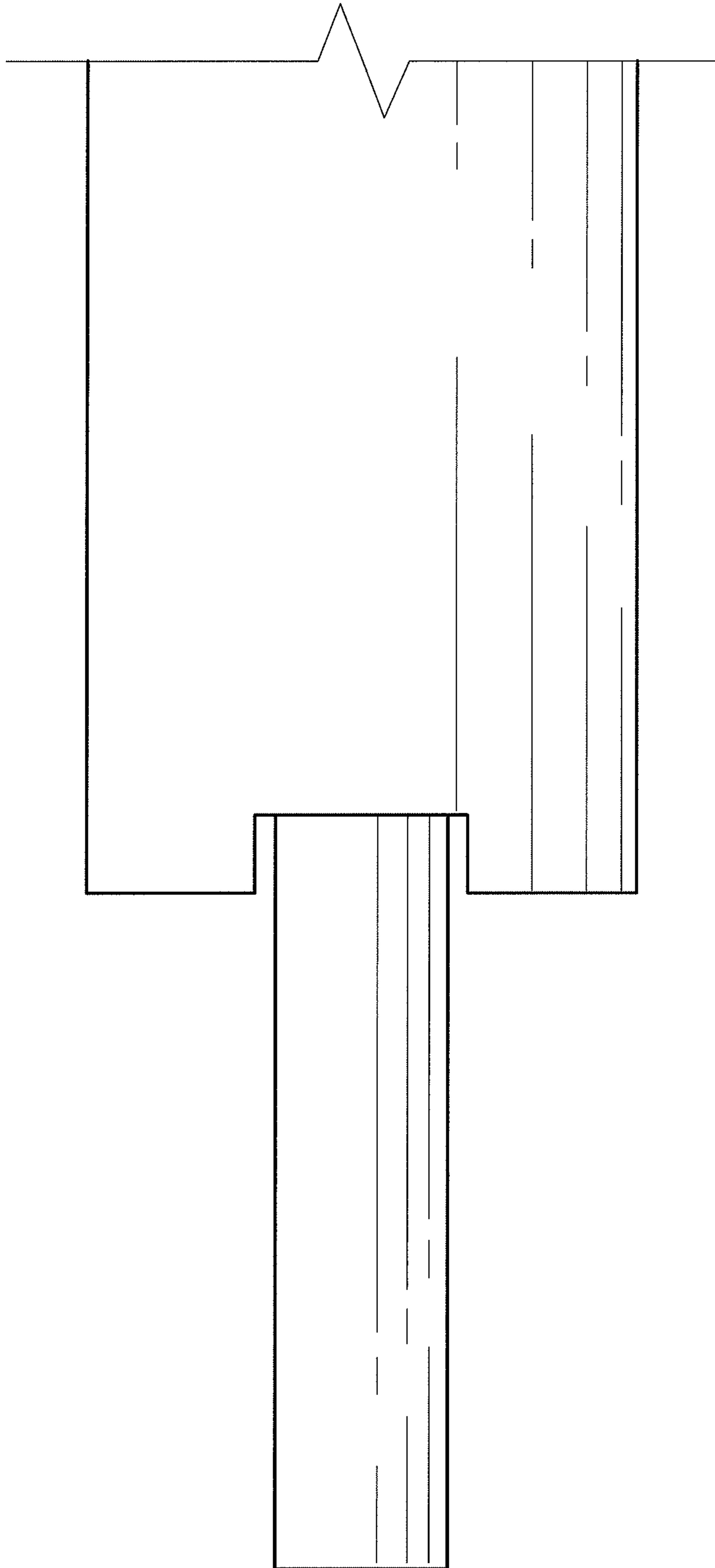


Fig.17

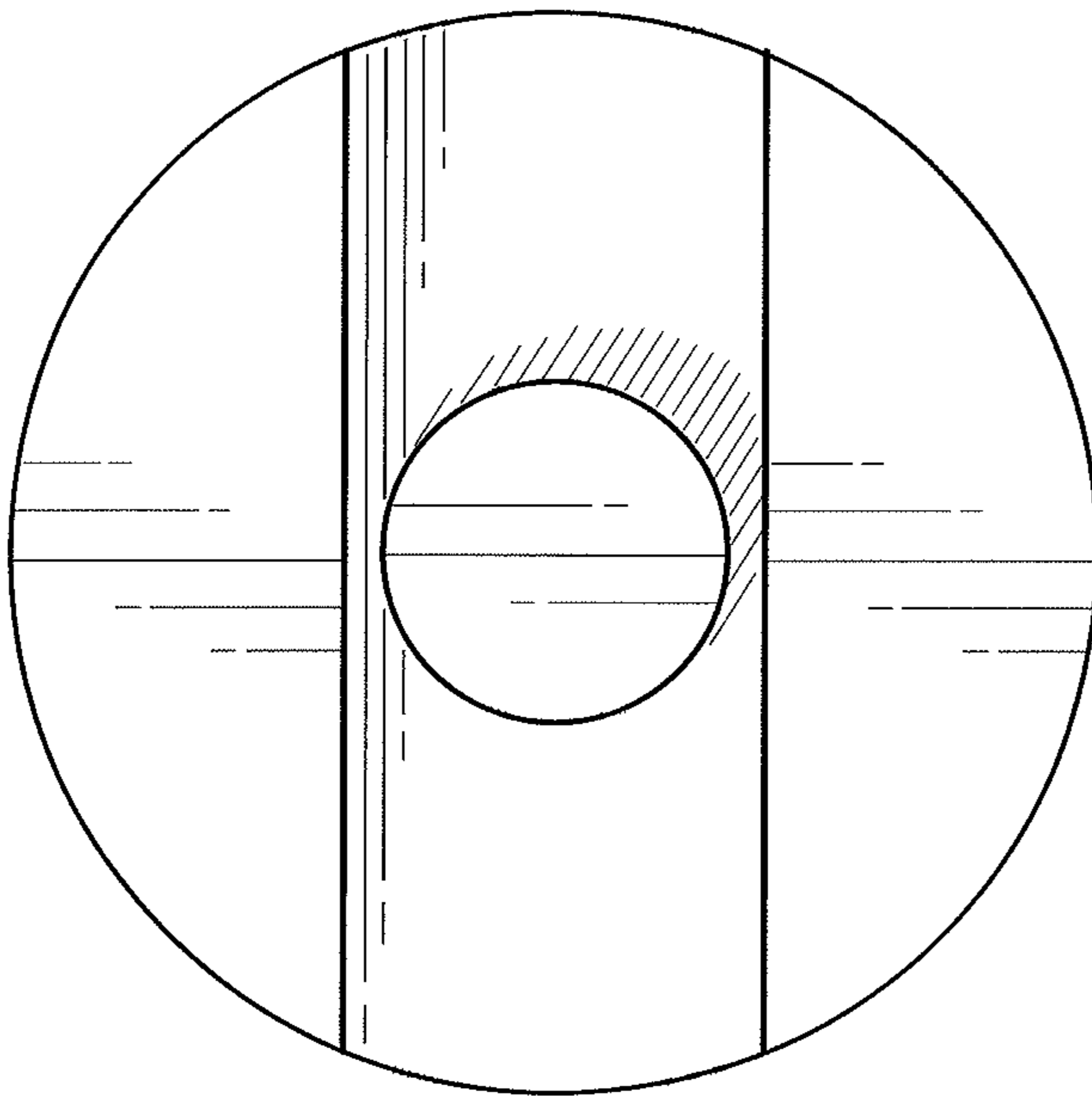


Fig.18

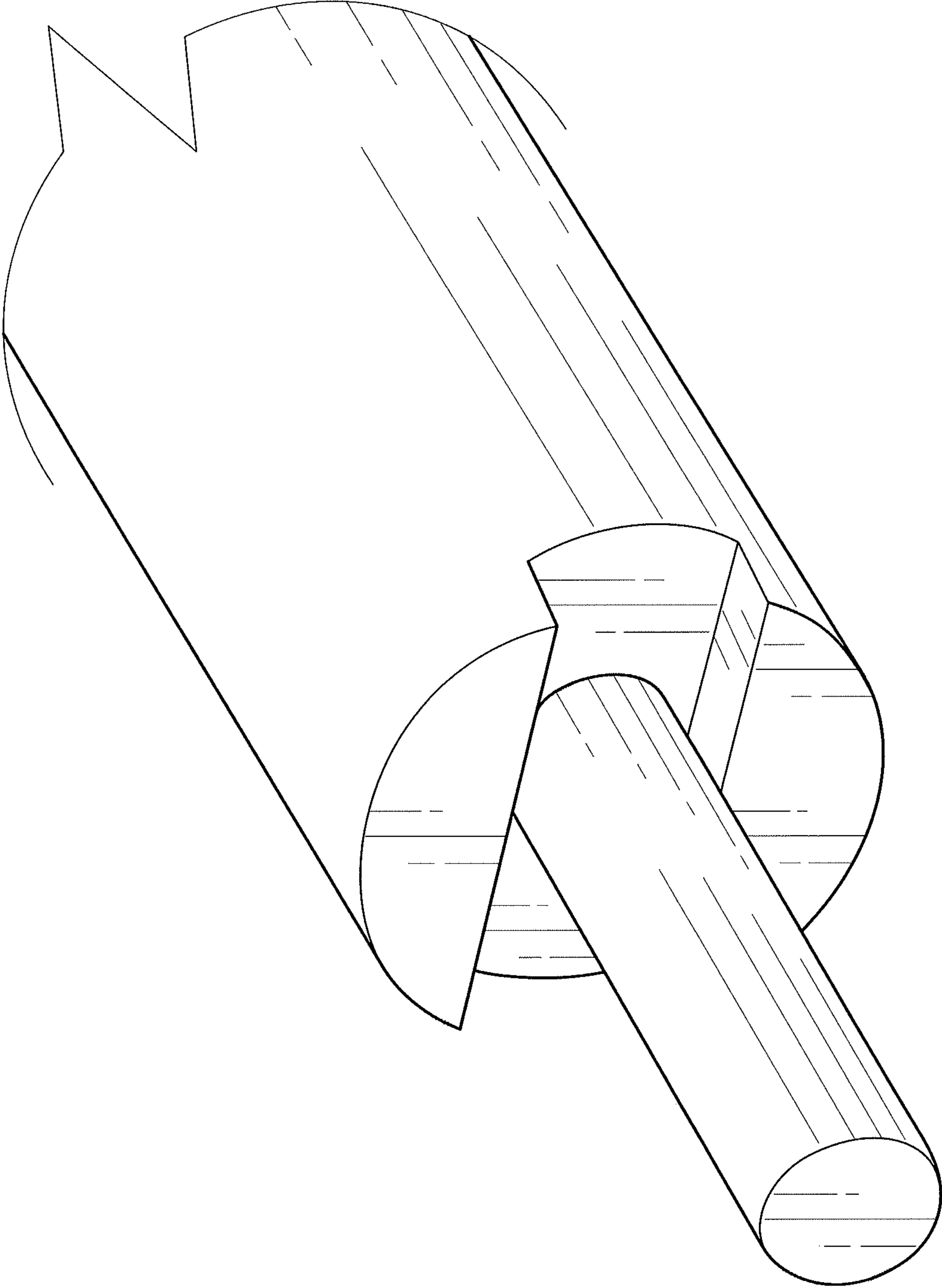


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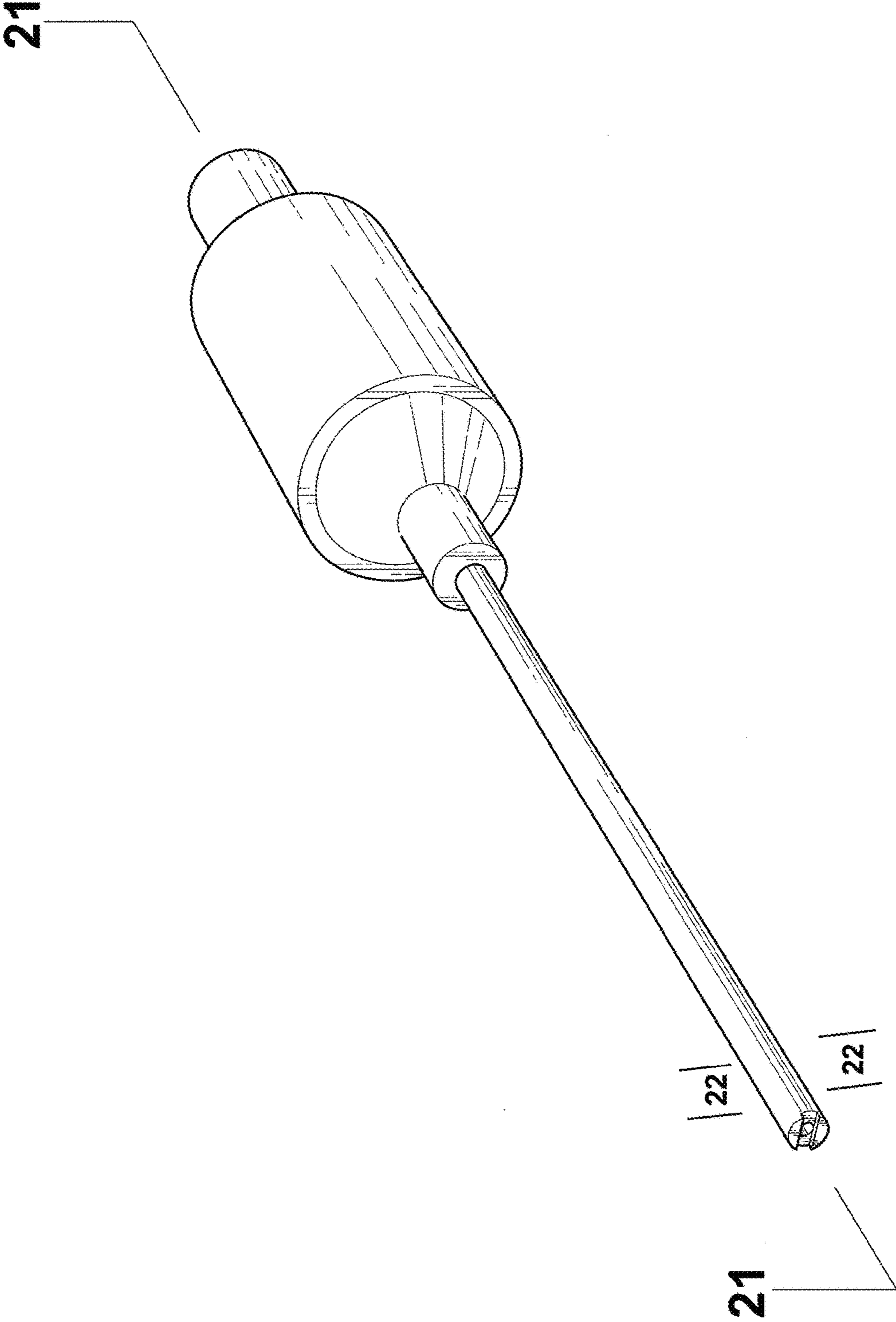


Fig.20

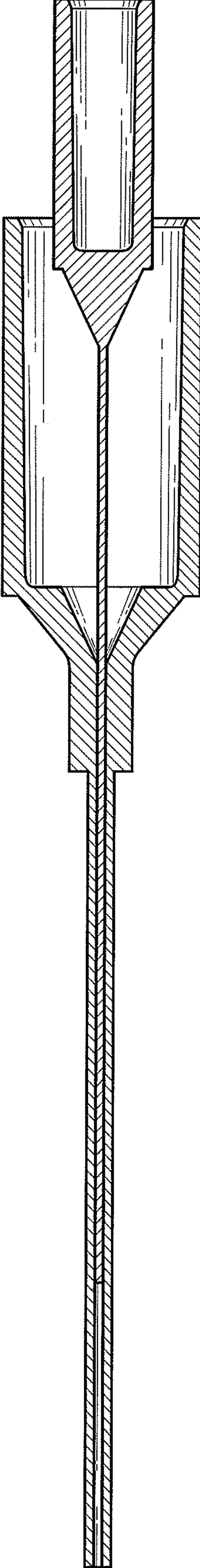


Fig.21

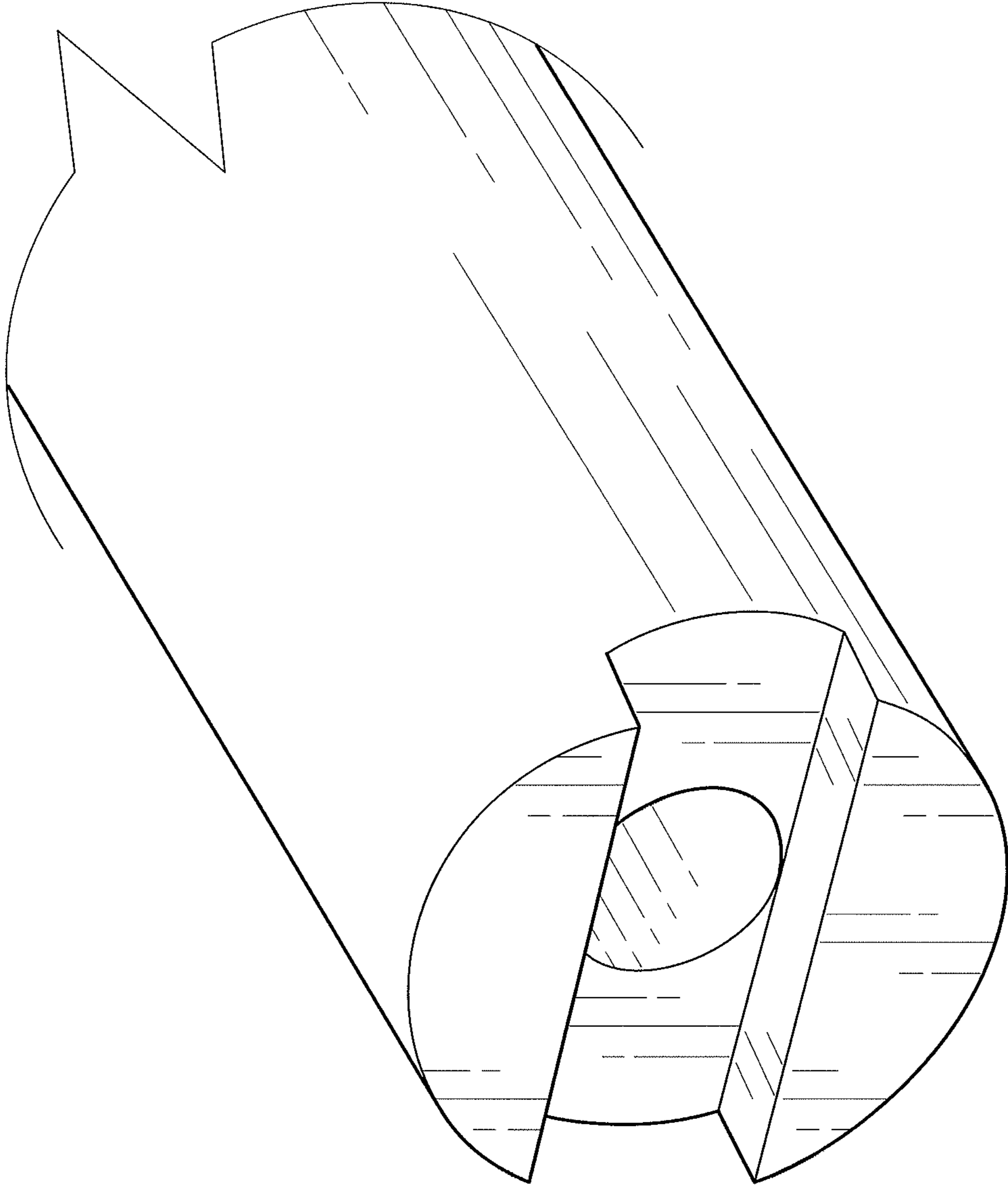


Fig.22