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(12) **United States Design Patent**
Furujo et al.

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(54) **OUTER NOZZLE FOR PLASMA TORCH**
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(**) Term: **14 Years**

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Related U.S. Application Data

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(51) **LOC (10) Cl.** **15-09**

(52) **U.S. Cl.**
USPC **D15/144**

(58) **Field of Classification Search**
USPC D15/144-144.2; 219/121.4-121.5,
219/121.52, 121.57
See application file for complete search history.

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(57) **CLAIM**

The ornamental design for an outer nozzle for plasma torch, as shown and described herein.

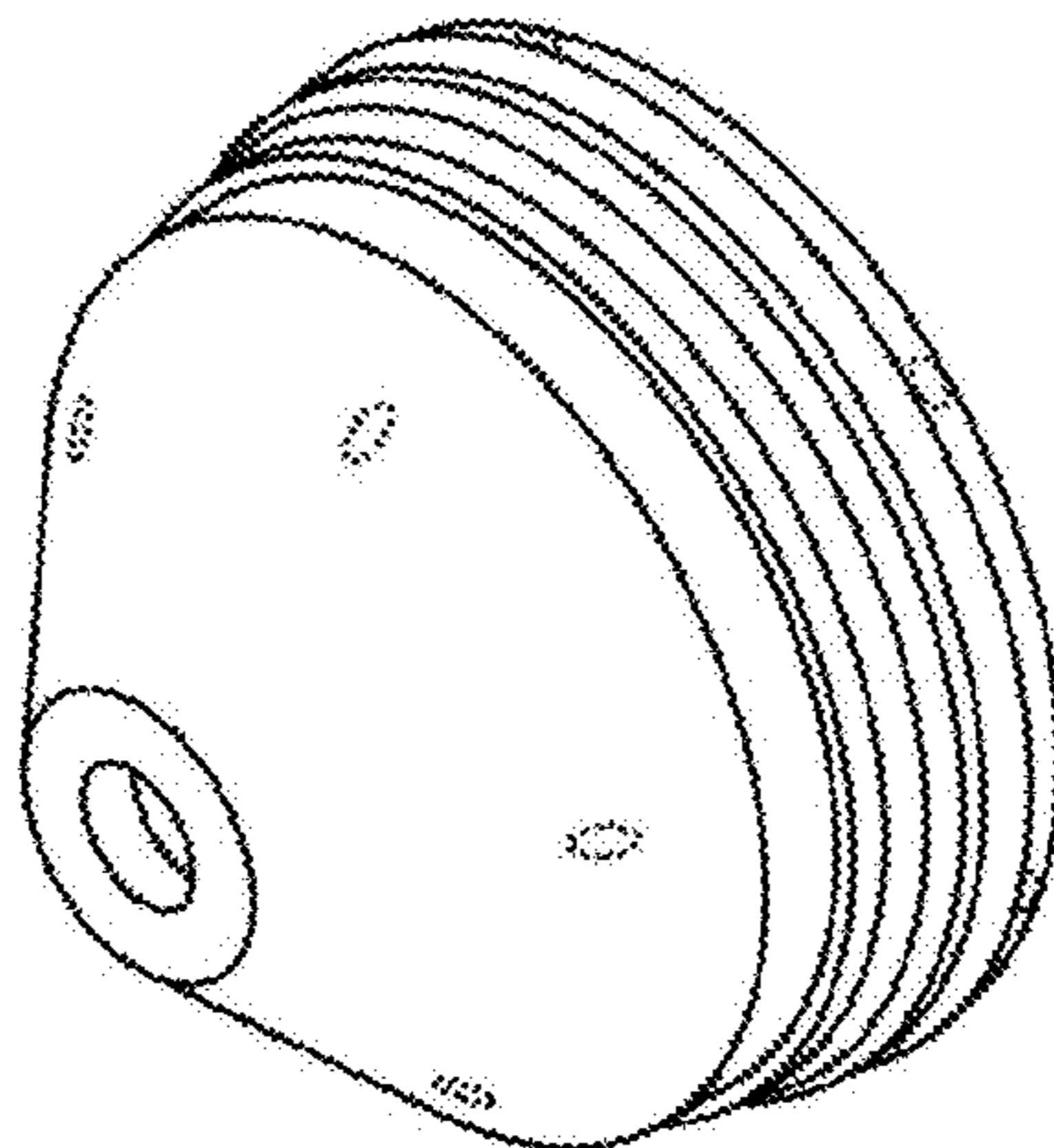
DESCRIPTION

FIG. 1 is a perspective view of the outer nozzle for a plasma torch showing our design;
FIG. 2 is a side view thereof;
FIG. 3 is a side view thereof;
FIG. 4 is a top view thereof;
FIG. 5 is a bottom view thereof;
FIG. 6 is a rear view thereof;
FIG. 7 is a front view thereof;
FIG. 8 is a cross-sectional view taken along line 8-8 of FIG. 7;
FIG. 9 is a cross-sectional view taken along line 9-9 of FIG. 2;
and,

FIG. 10 is an exploded view of the components making up the plasma torch including the outer nozzle. This exploded view shows the plasma torch, inner cap therefor, inner nozzle therefor, inner cap therefor, electrode therefor, and the outer nozzle for same as claimed herein, illustrating the position of the outer nozzle relative to same. The claimed design is shown in solid lines. The broken lines in the drawings depict unclaimed environmental subject matter.

In particular, the claimed article is an outer nozzle used with a plasma torch for high temperature cutting applications, such as cutting of metals. The claimed article is partially expended (worn) during use, and replaced as needed. Therefore, the claimed article may be sold separately from the plasma torch, and distributed separately in the market place.

1 Claim, 10 Drawing Sheets



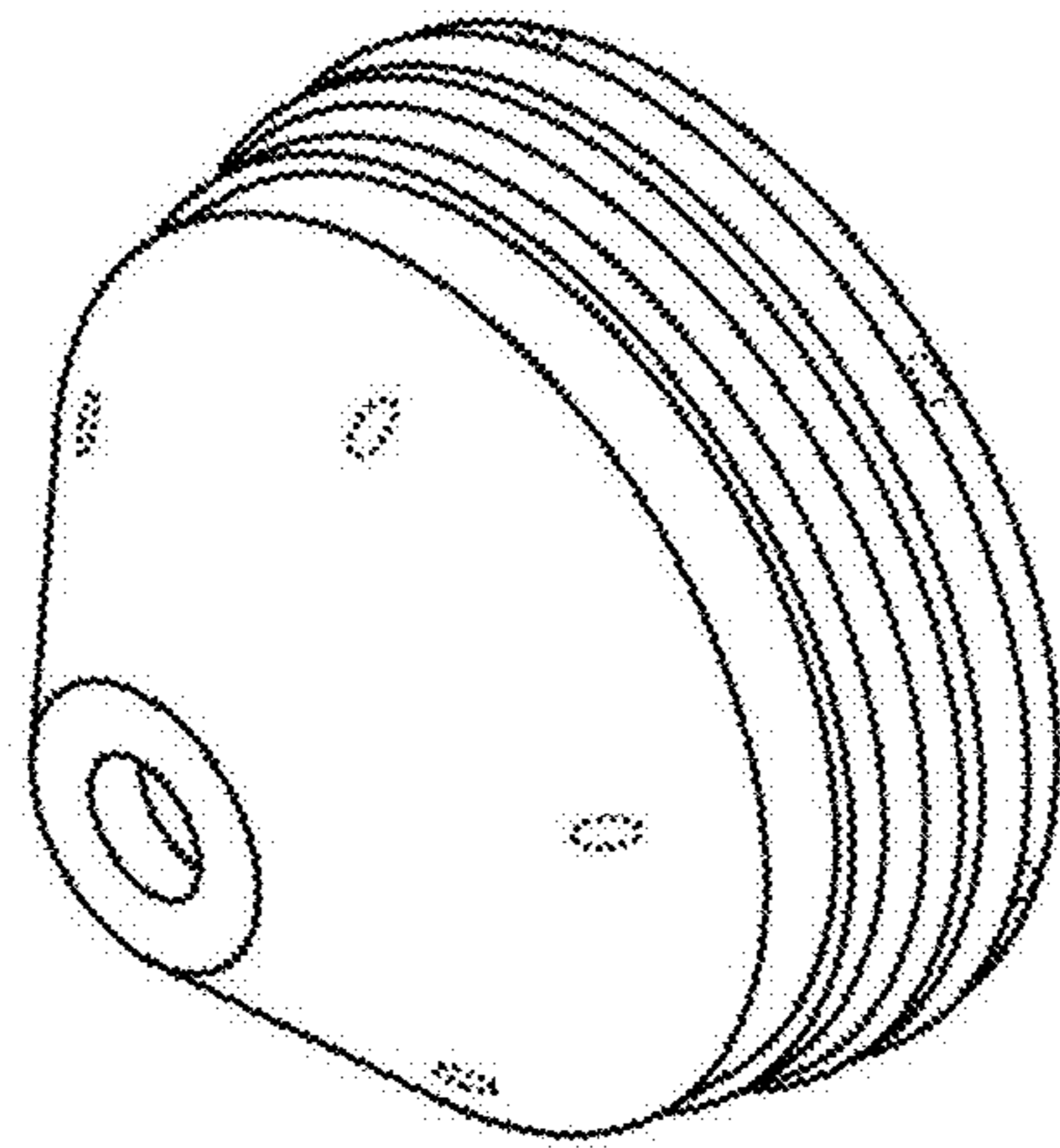


Fig. 1

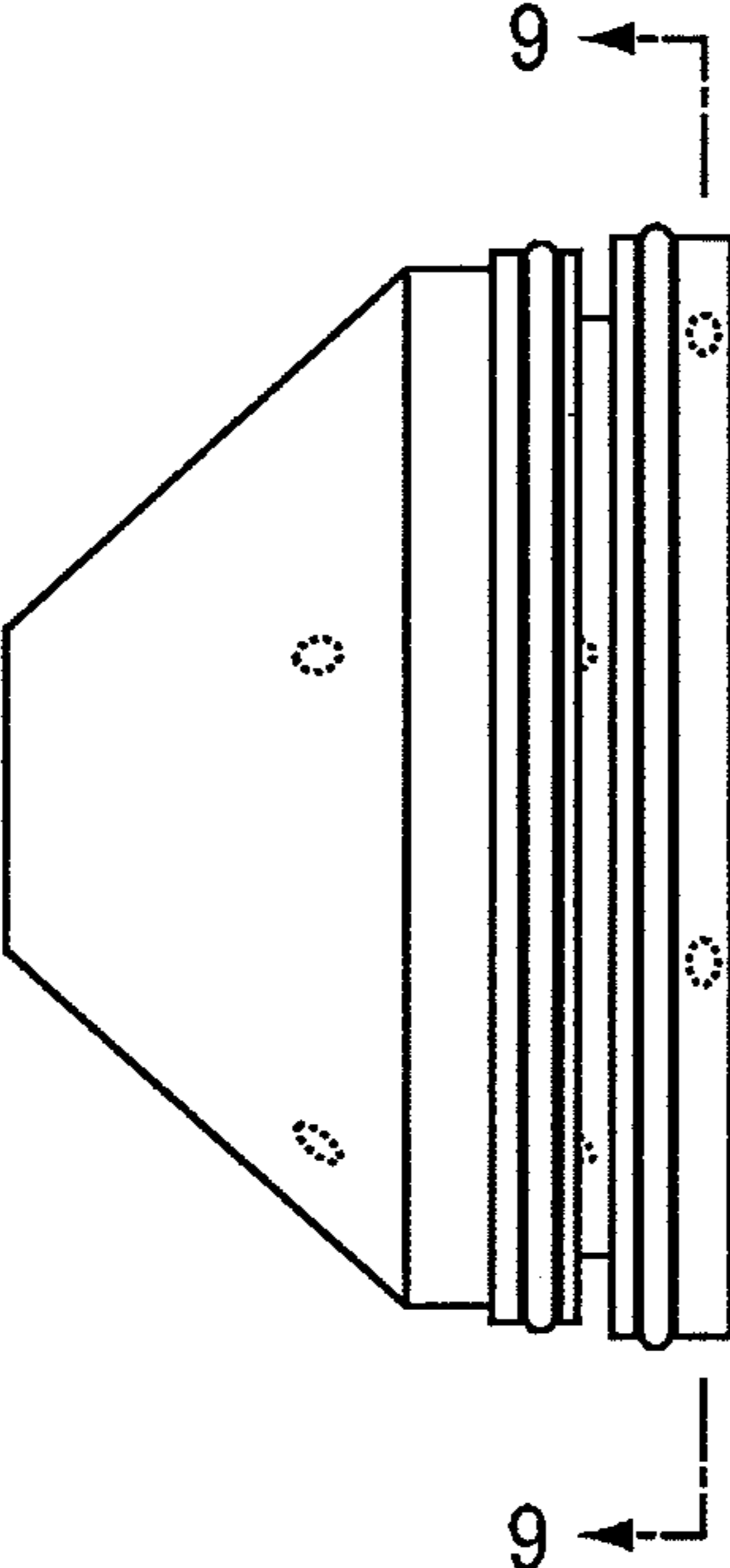


Fig. 2

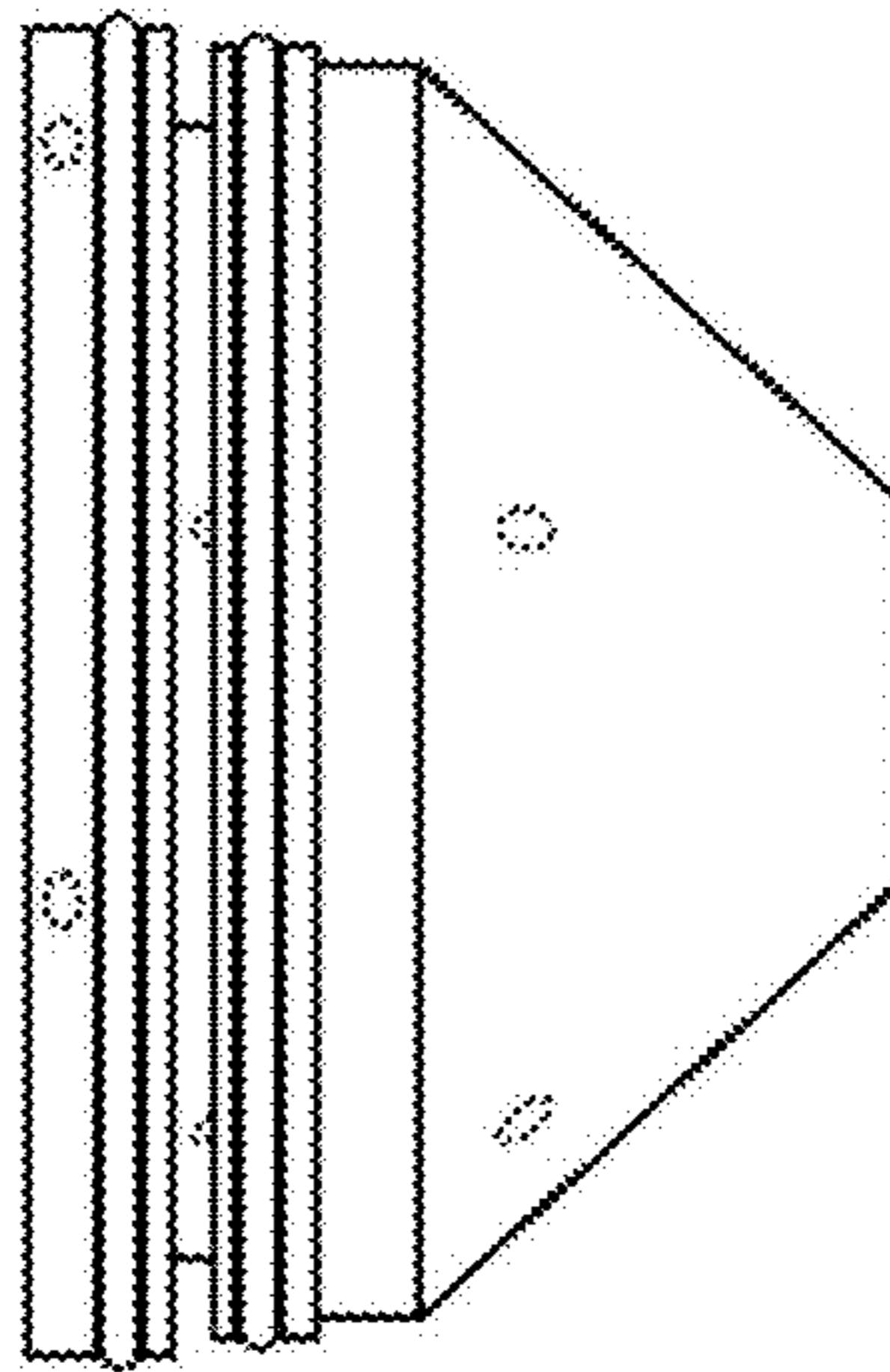


Fig. 3

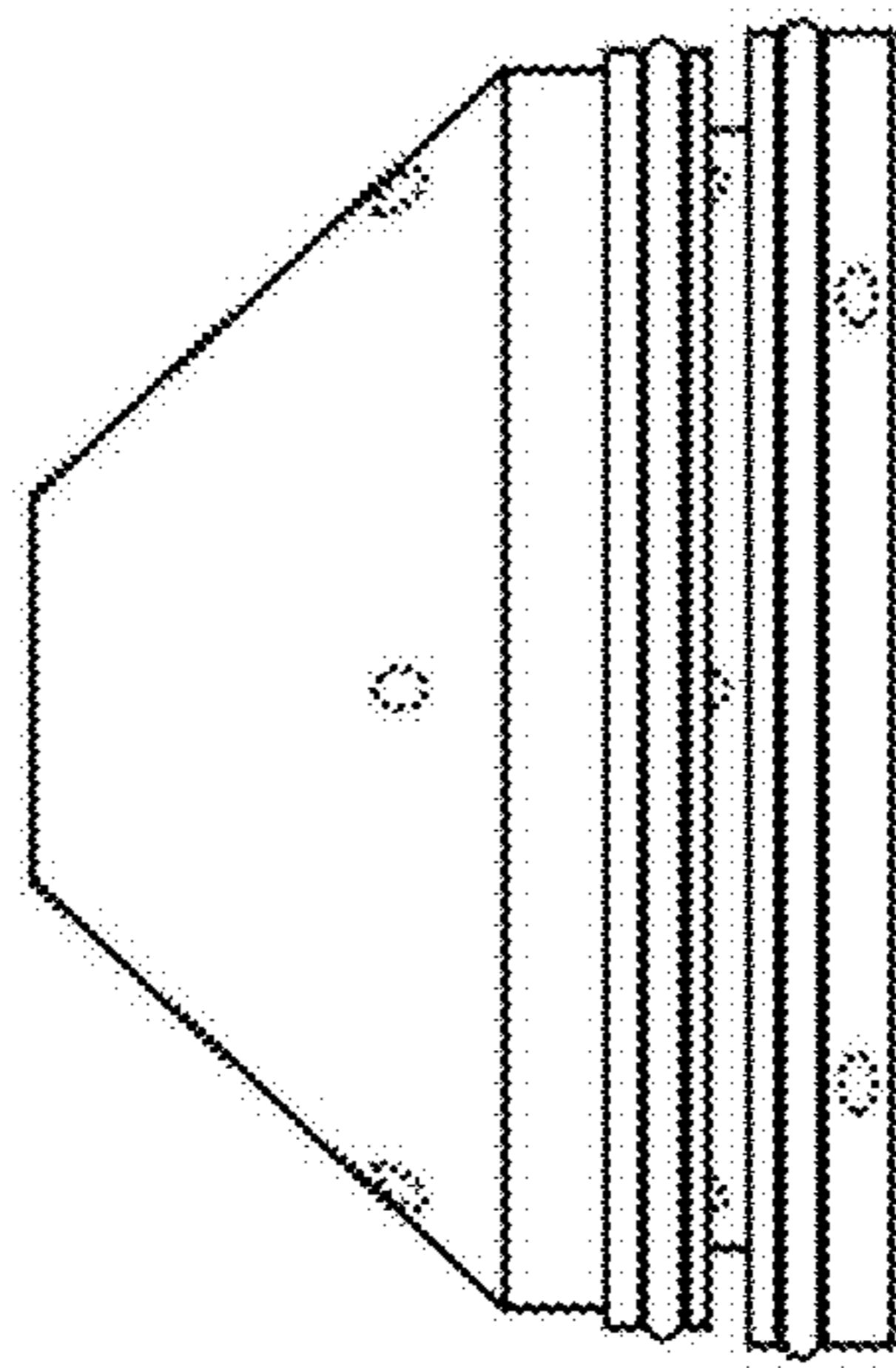


Fig. 4

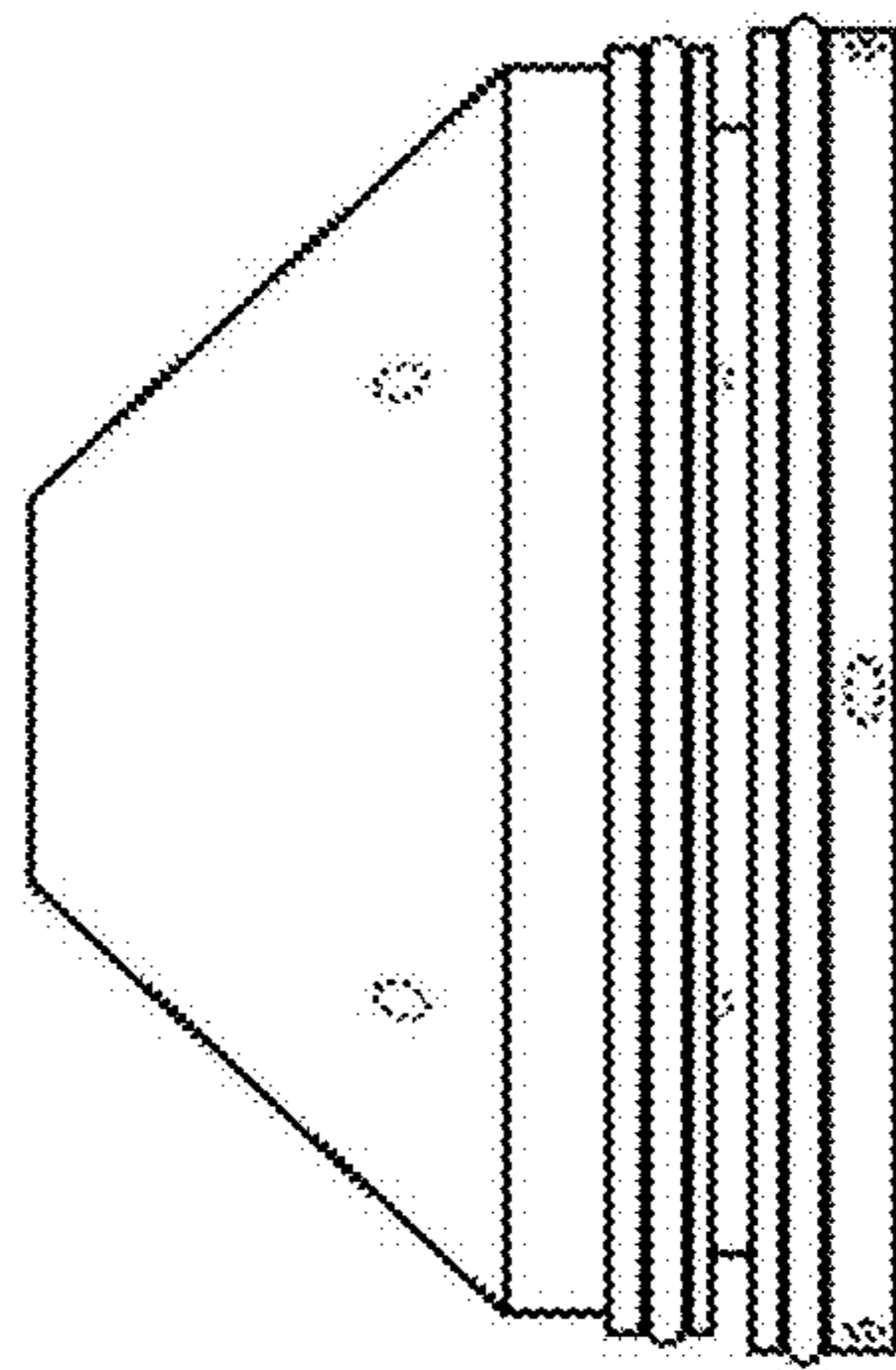


Fig. 5

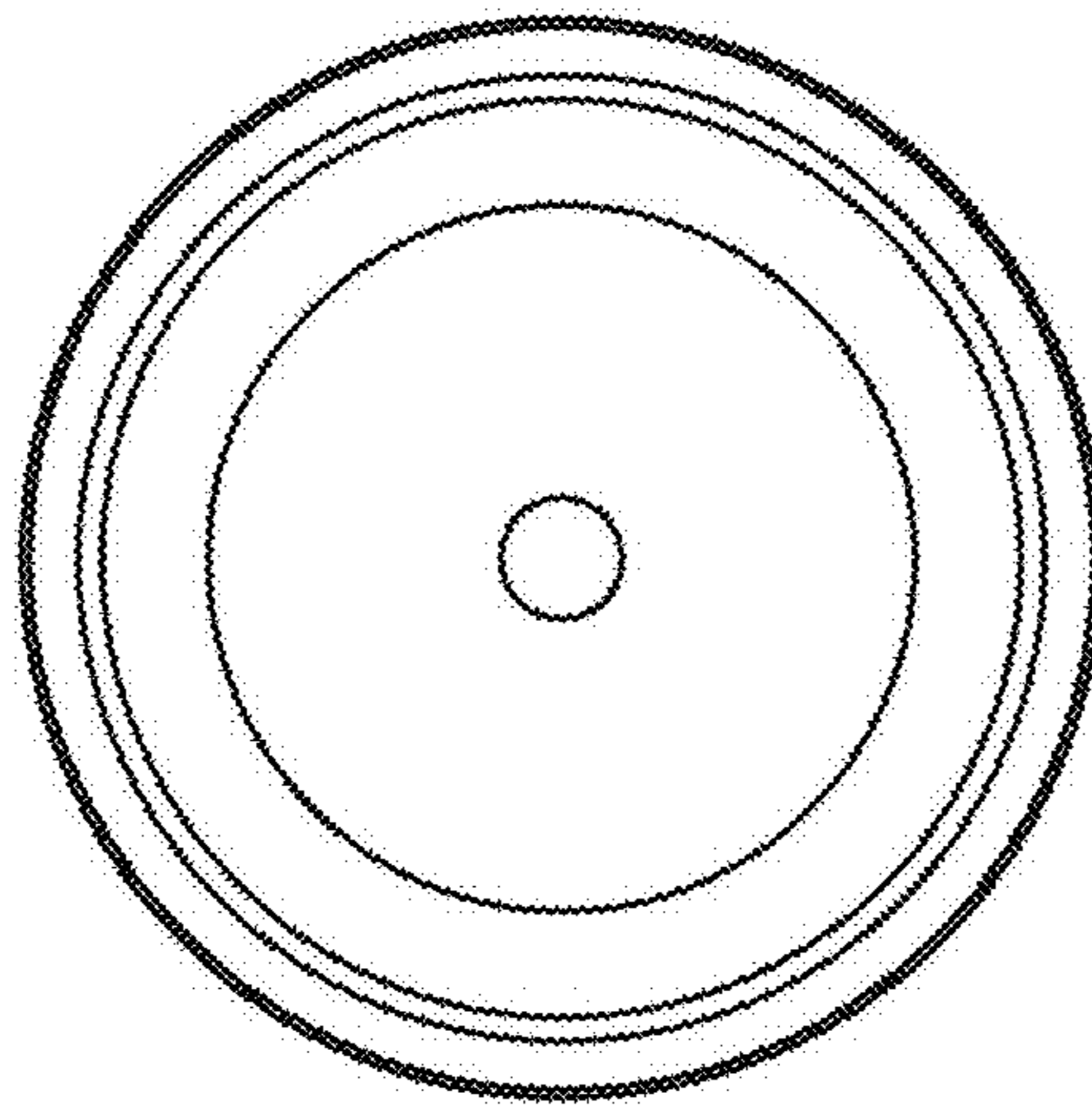


Fig. 6

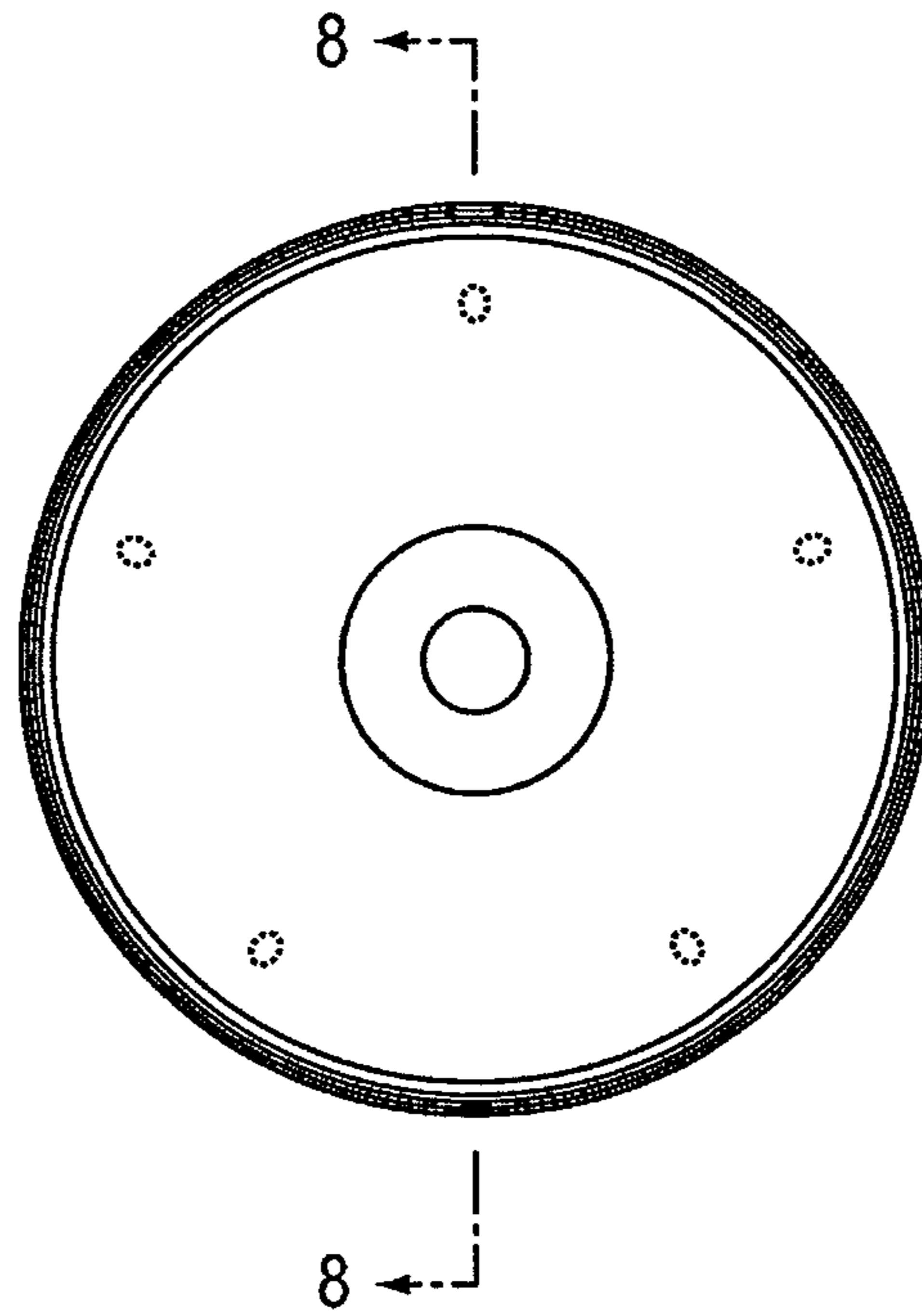


Fig. 7

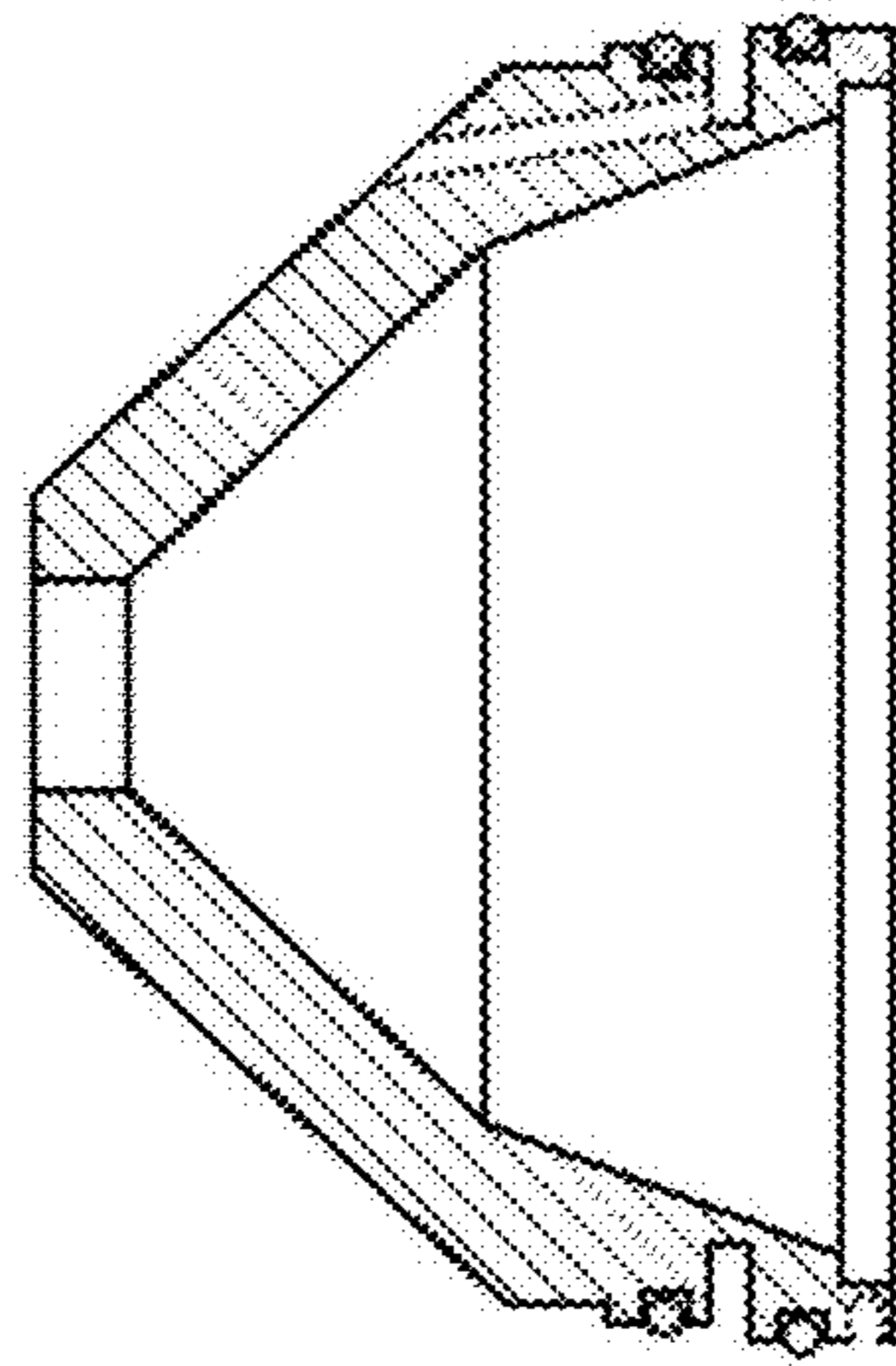


Fig. 8

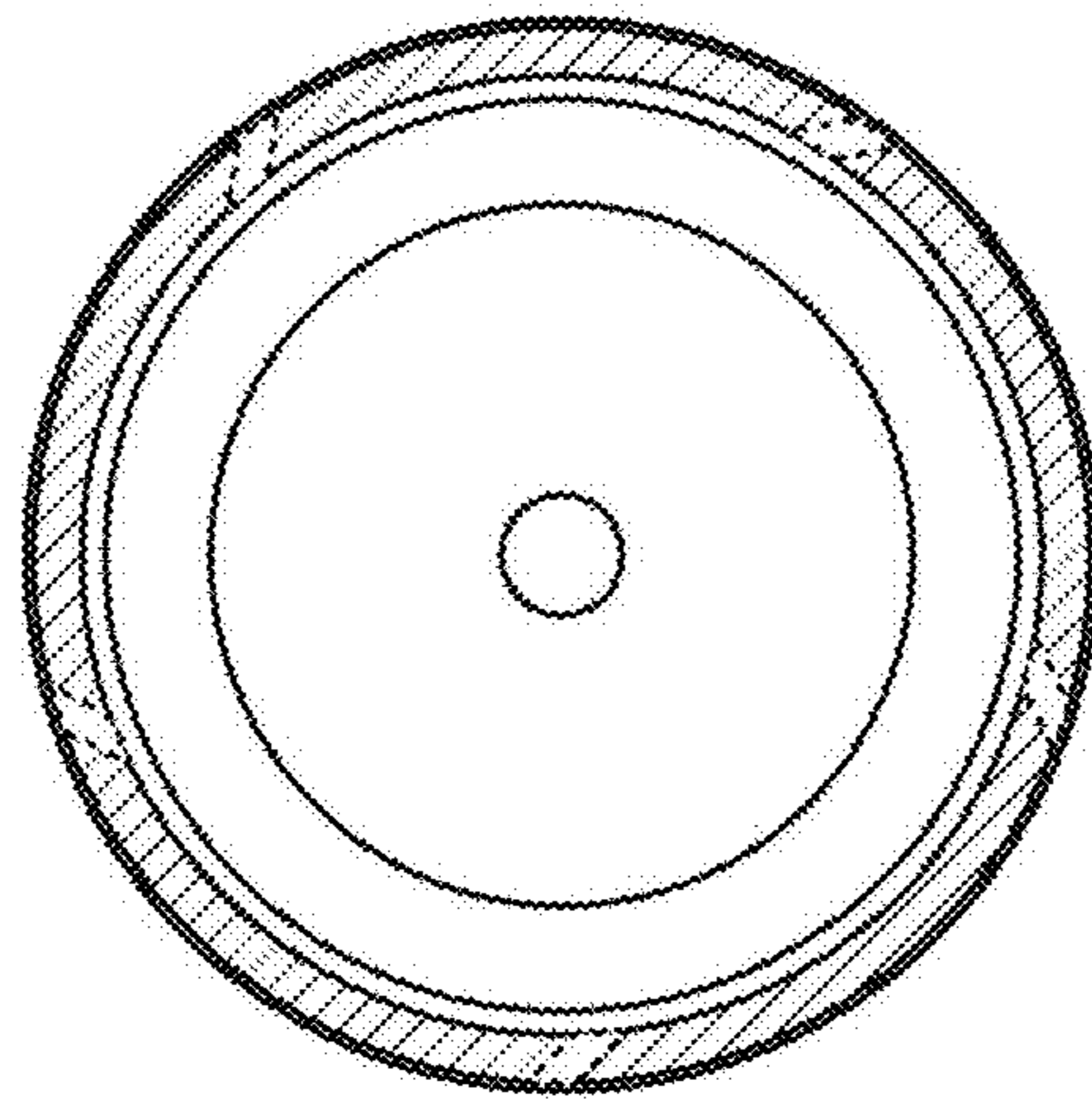


Fig. 9

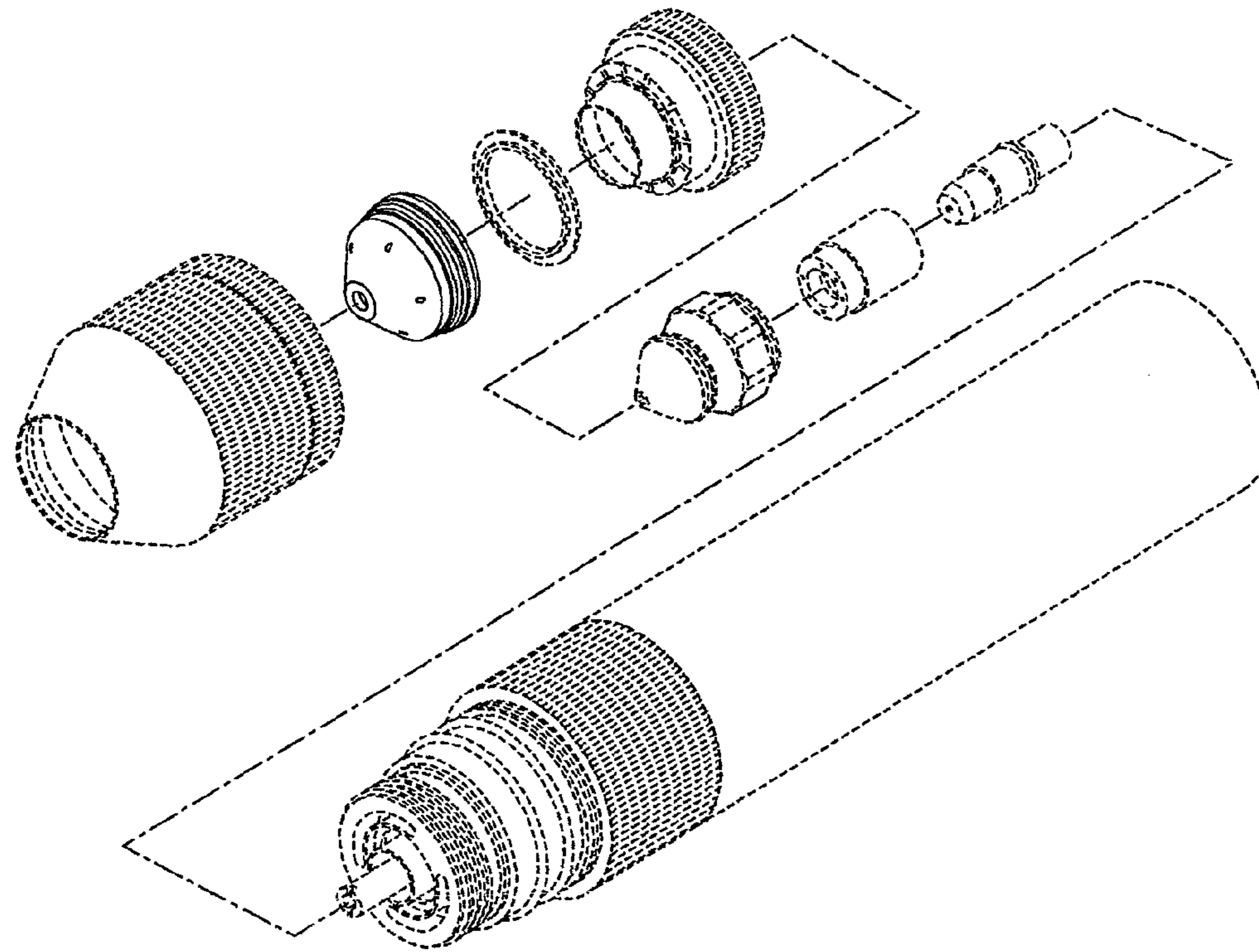


Fig. 10