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

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(45) **Date of Patent:** **** Aug. 14, 2001**

(54) **ELECTRODE FOR A PLASMA ARC TORCH**

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(73) Assignee: **Komatsu Industries Corporation**, Tokyo (JP)

(**) Term: **14 Years**

(21) Appl. No.: **29/128,162**

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(51) **LOC (7) Cl.** **15-09**

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

(58) **Field of Search** D15/144, 144.1, D15/144.2; 219/119, 120, 121.11, 121.12, 121.18, 121.38, 121.48-121.59

(56) **References Cited**

U.S. PATENT DOCUMENTS

- D. 231,834 * 6/1974 Gulrich D15/144
- D. 362,860 * 10/1995 Carkhuff D15/144

- D. 384,682 * 10/1997 Turner et al. D15/144
- D. 417,459 * 12/1999 Shintani et al. D15/144
- 5,965,040 * 10/1999 Luo et al. 219/121.5

* cited by examiner

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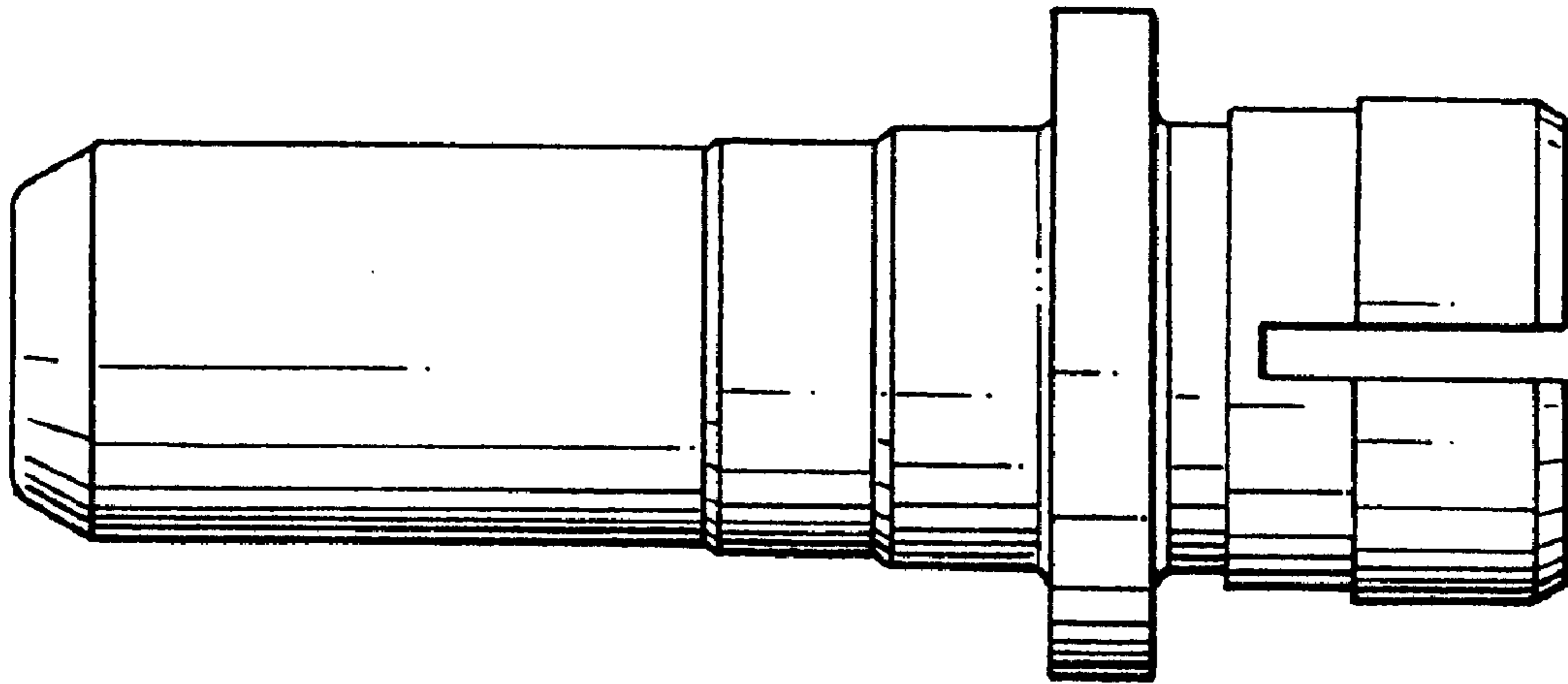
(57) **CLAIM**

The ornamental design for an electrode for a plasma arc torch, as shown and described.

DESCRIPTION

FIG. 1 is a top plan view of an electrode for a plasma arc torch showing our new design, the bottom plan view being identical to the top plan view;
 FIG. 2 is a front view thereof, the rear view being symmetrical to the front view;
 FIG. 3 is a right side view thereof;
 FIG. 4 is a left side view thereof; and,
 FIG. 5 is a cross sectional view taken along line 5—5 in FIG. 2.

1 Claim, 3 Drawing Sheets



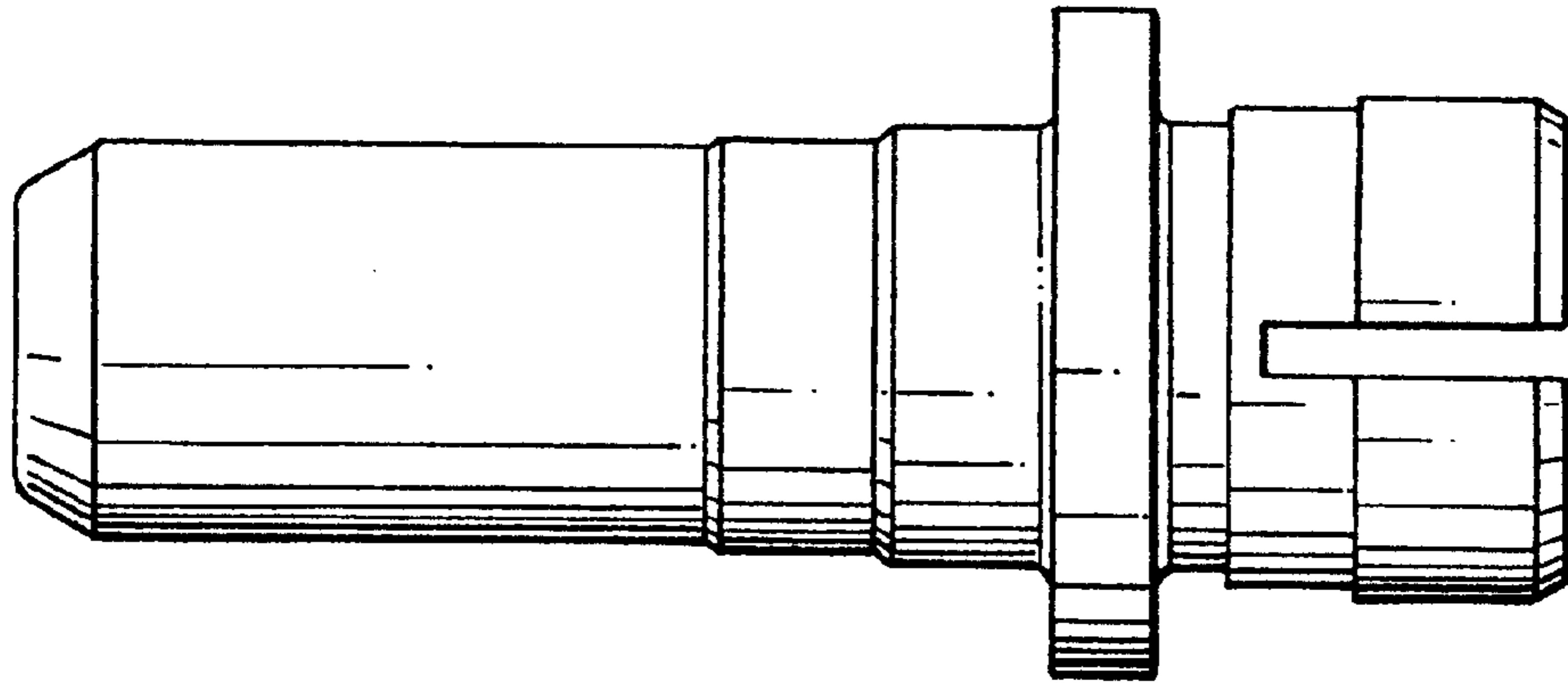


FIG. 1

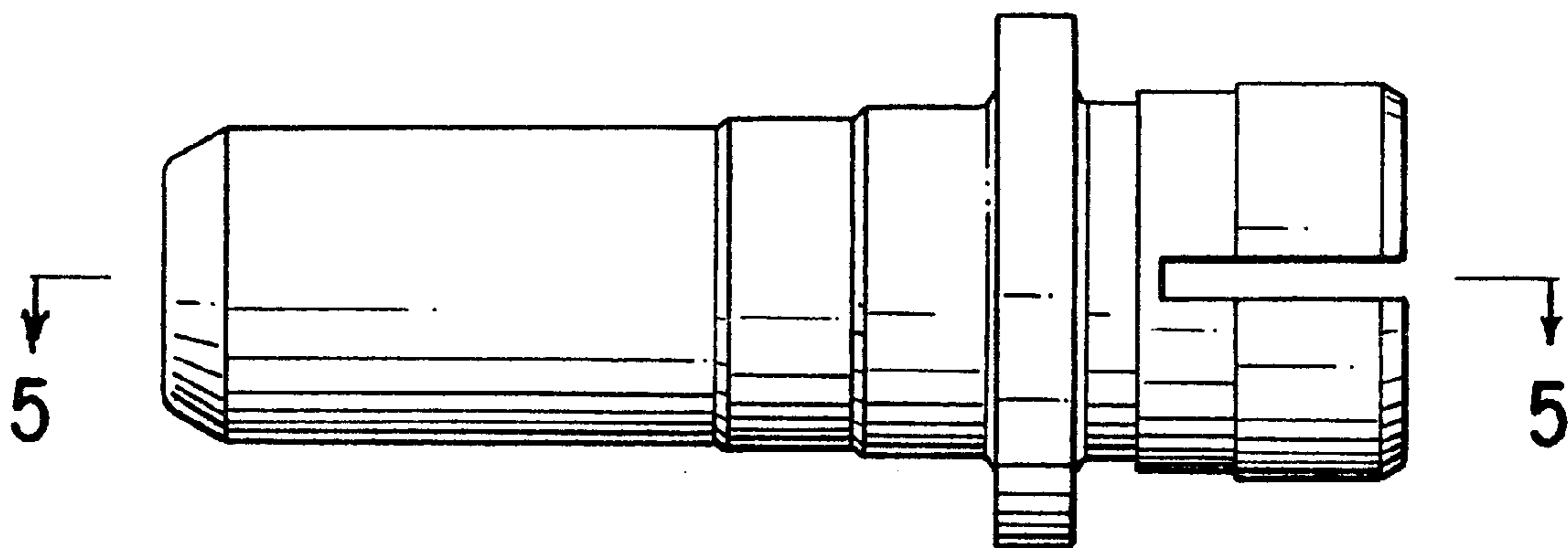


FIG. 2

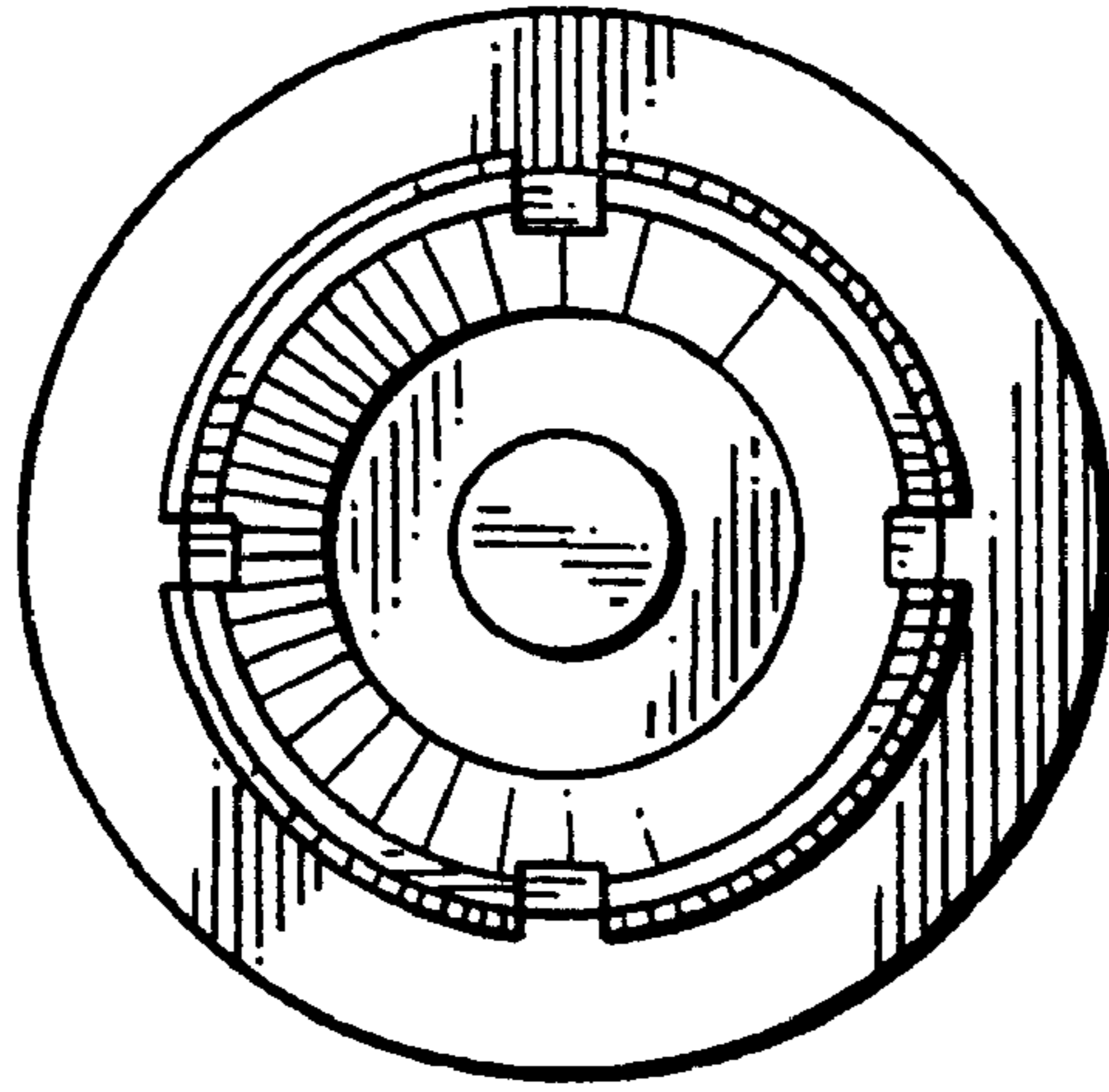


FIG. 3

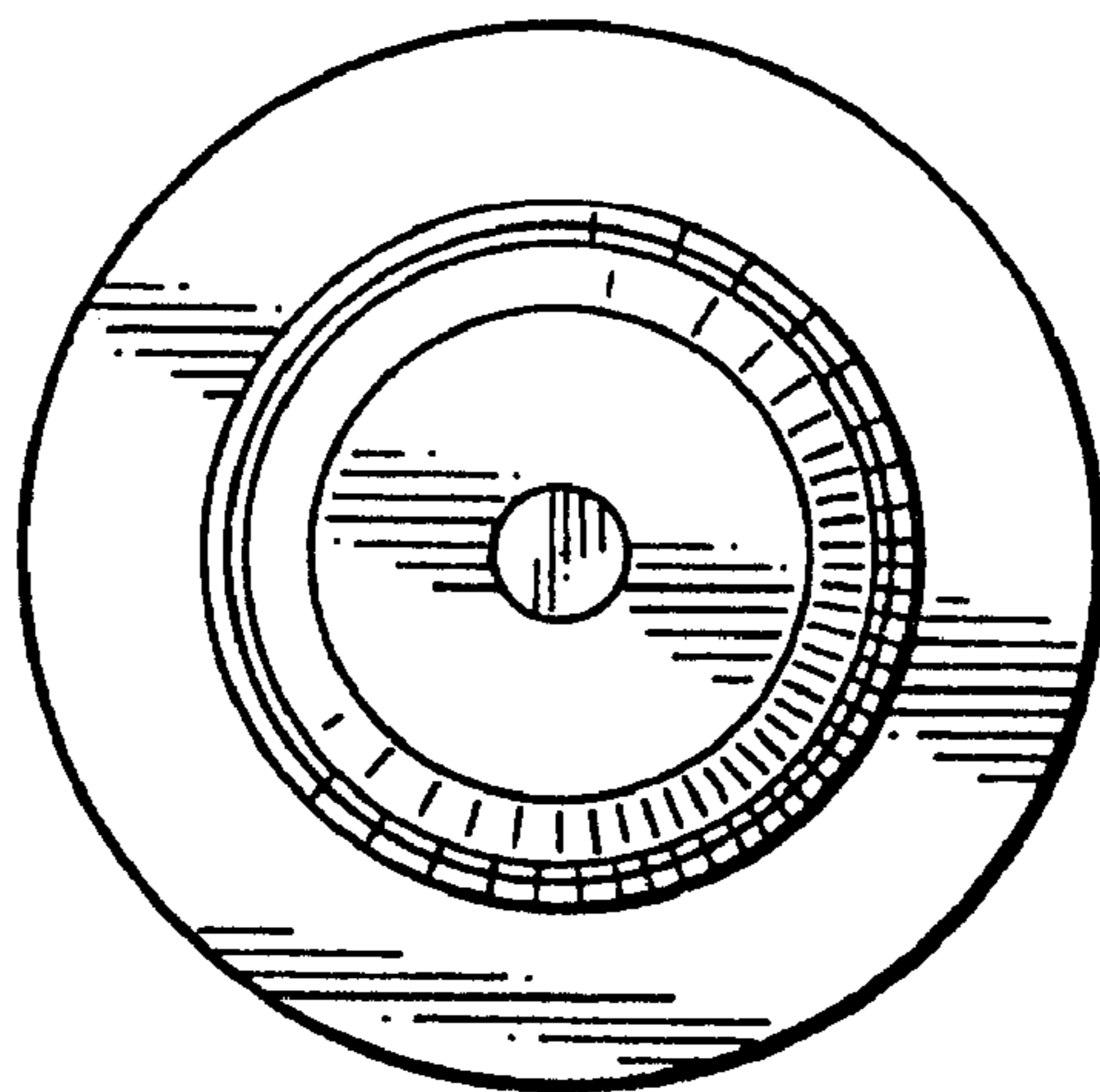


FIG. 4

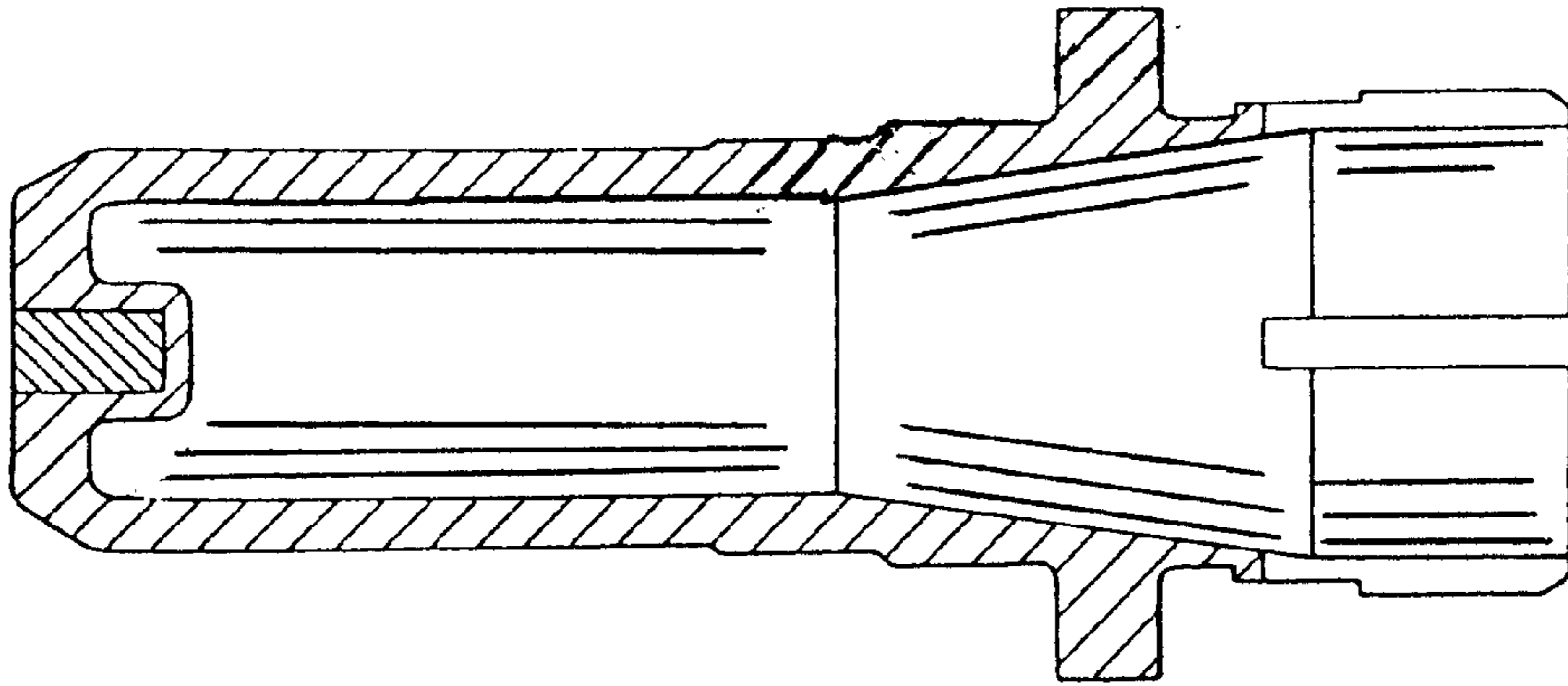


FIG. 5