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

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(45) **Date of Patent:** **** Aug. 21, 2001**

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

5,747,767 * 5/1998 Severance et al. 219/121.5

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* cited by examiner

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(73) Assignee: **Komatsu Ltd., Tokyo (JP)**

(57) **CLAIM**

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

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

(21) Appl. No.: **29/128,160**

DESCRIPTION

(22) Filed: **Aug. 21, 2000**

FIG. 1 is a top plan view of a nozzle for a plasma arc torch
showing our new design;

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

FIG. 2 is a left side view thereof;

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

FIG. 3 is a front view thereof, the rear view being sym-
metrical to the front view;

(58) **Field of Search** D15/144, 144.1,
D15/144.2; 219/119–121.59

FIG. 4 is a right side view thereof;

(56) **References Cited**

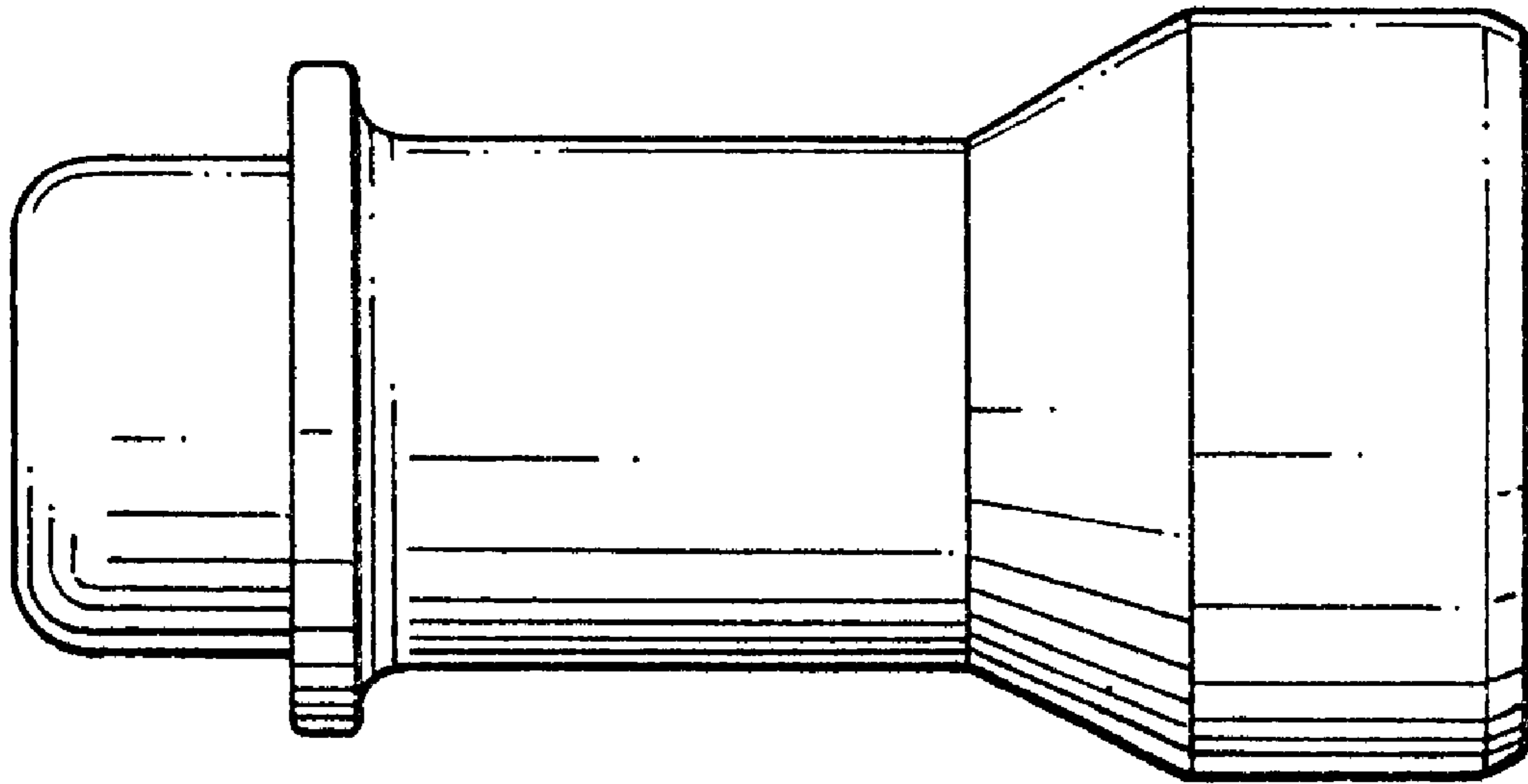
FIG. 5 is a bottom plan view thereof; and,

U.S. PATENT DOCUMENTS

FIG. 6 is a cross sectional view taken along line 6—6 in FIG.
3.

D. 414,788 * 10/1999 Shintani et al. D15/144

1 Claim, 3 Drawing Sheets



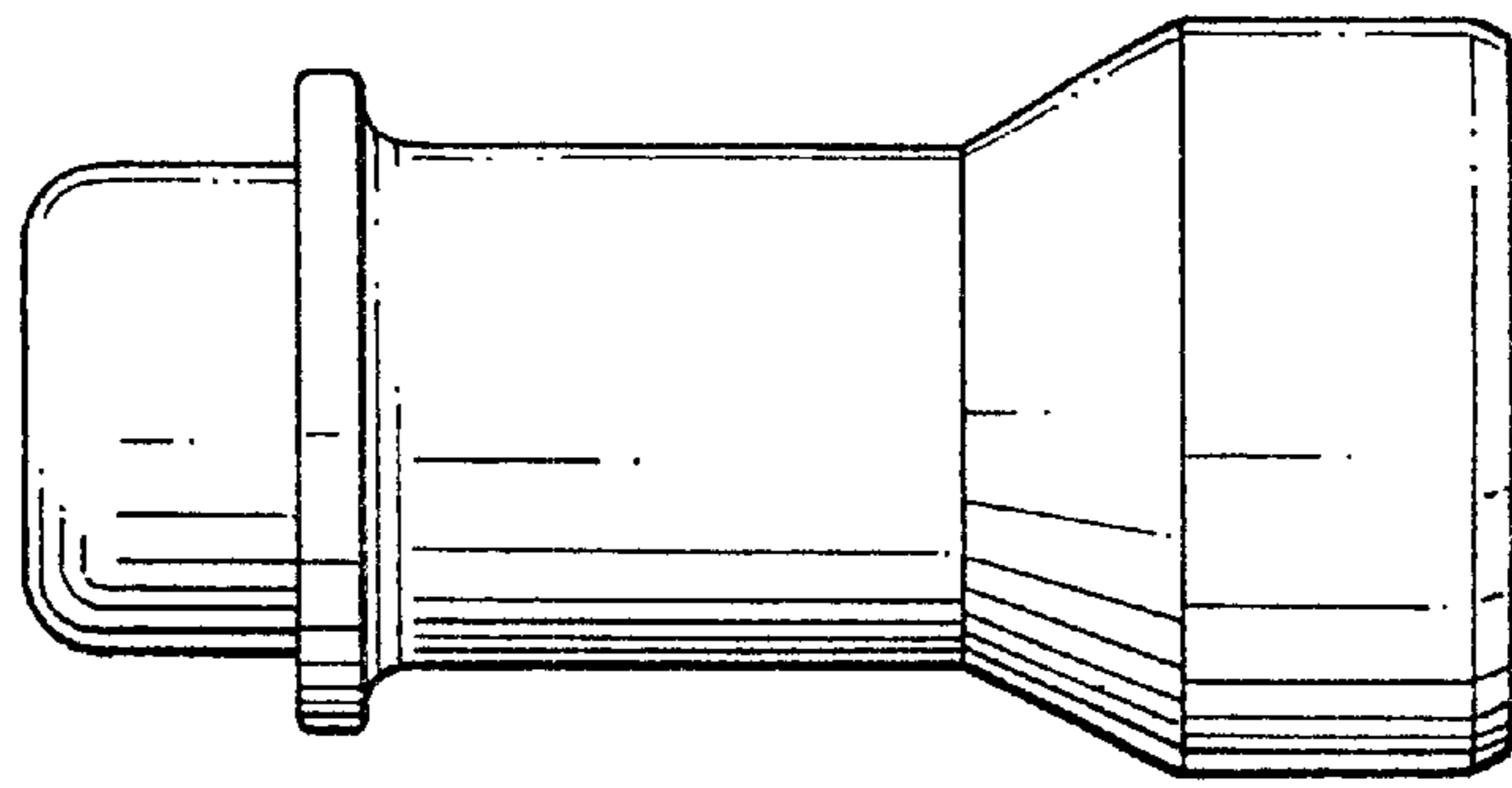


FIG. 1

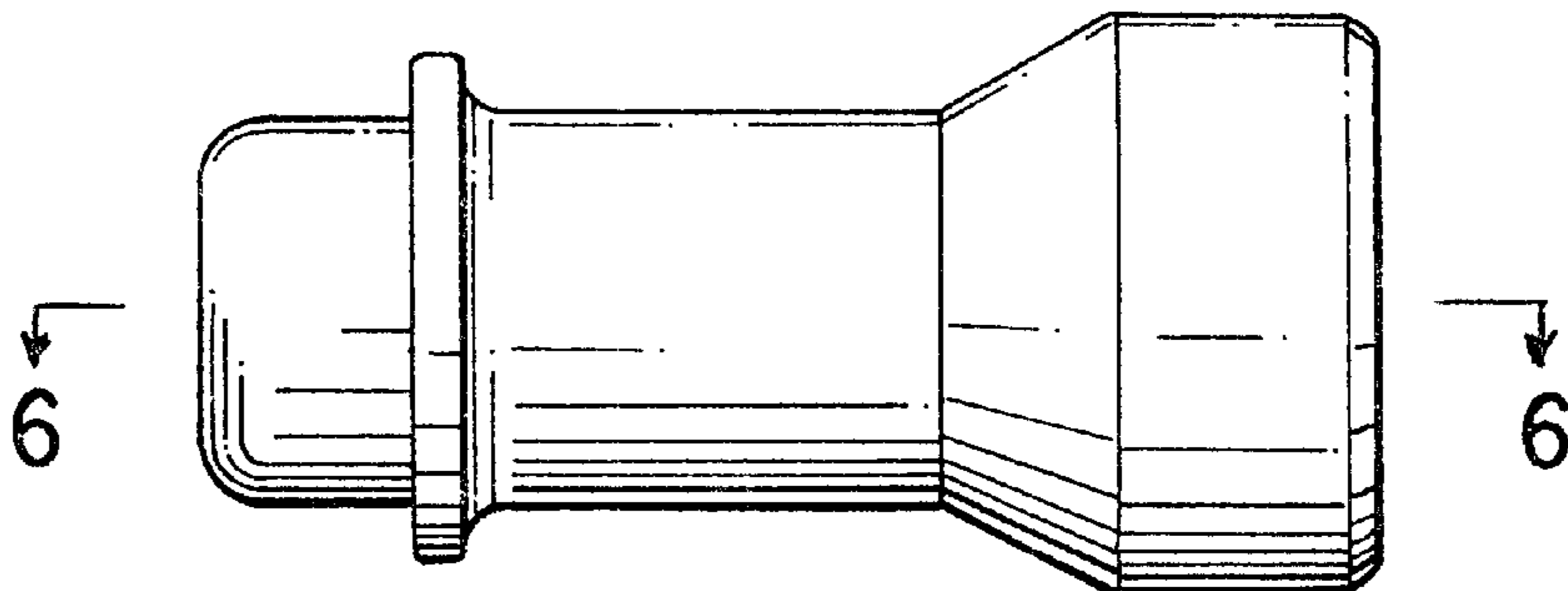


FIG. 3

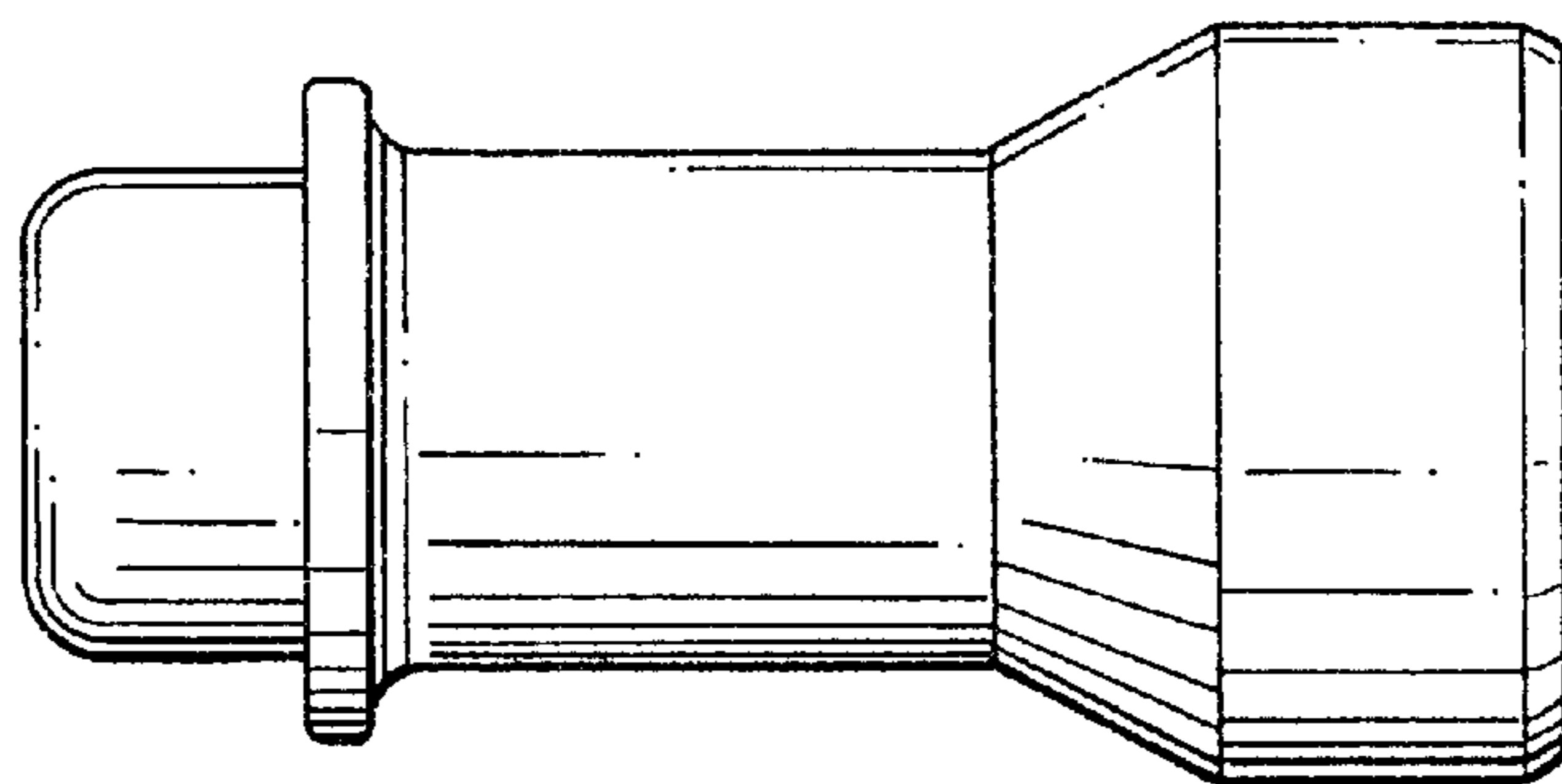


FIG. 5

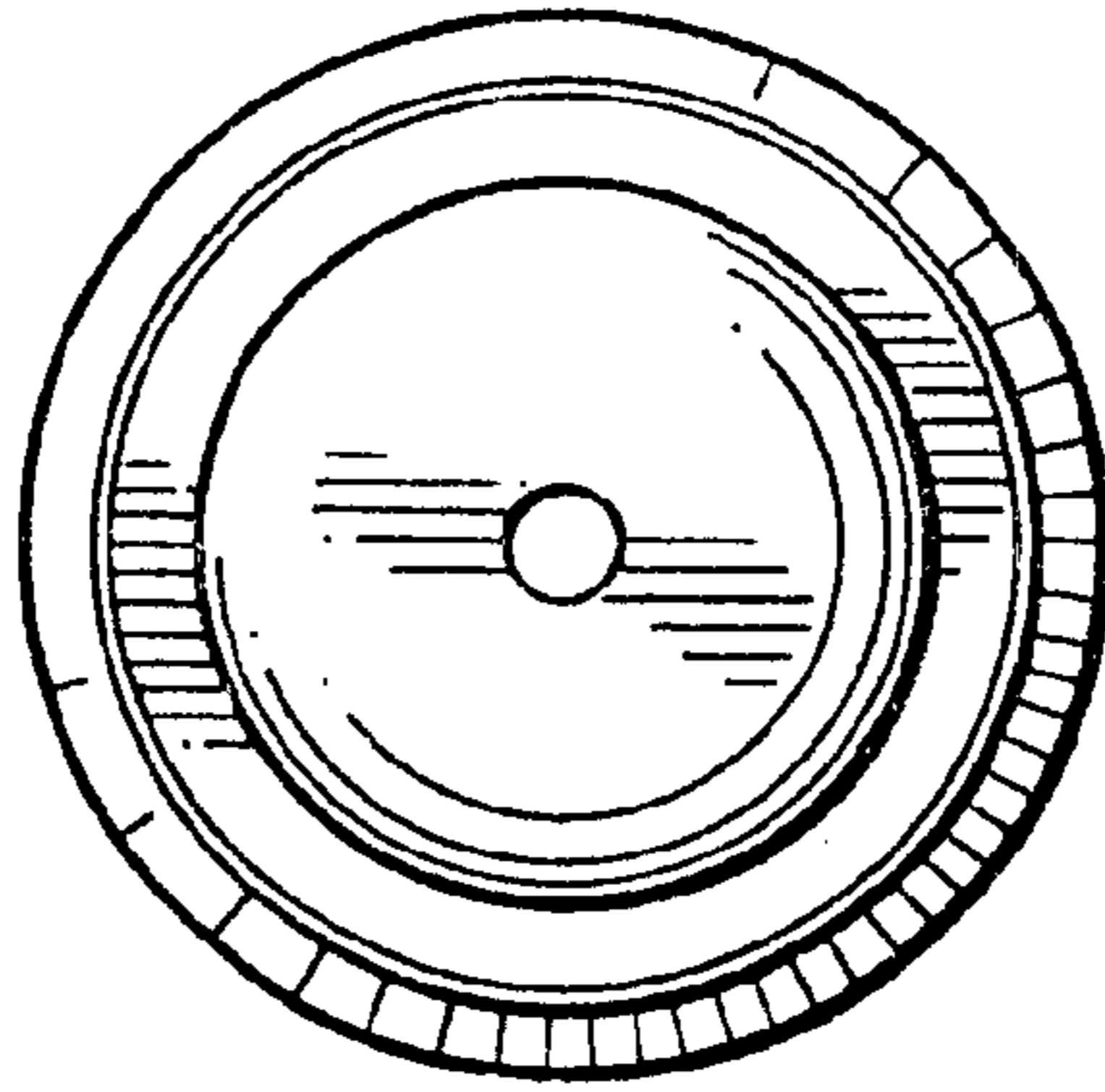


FIG. 2

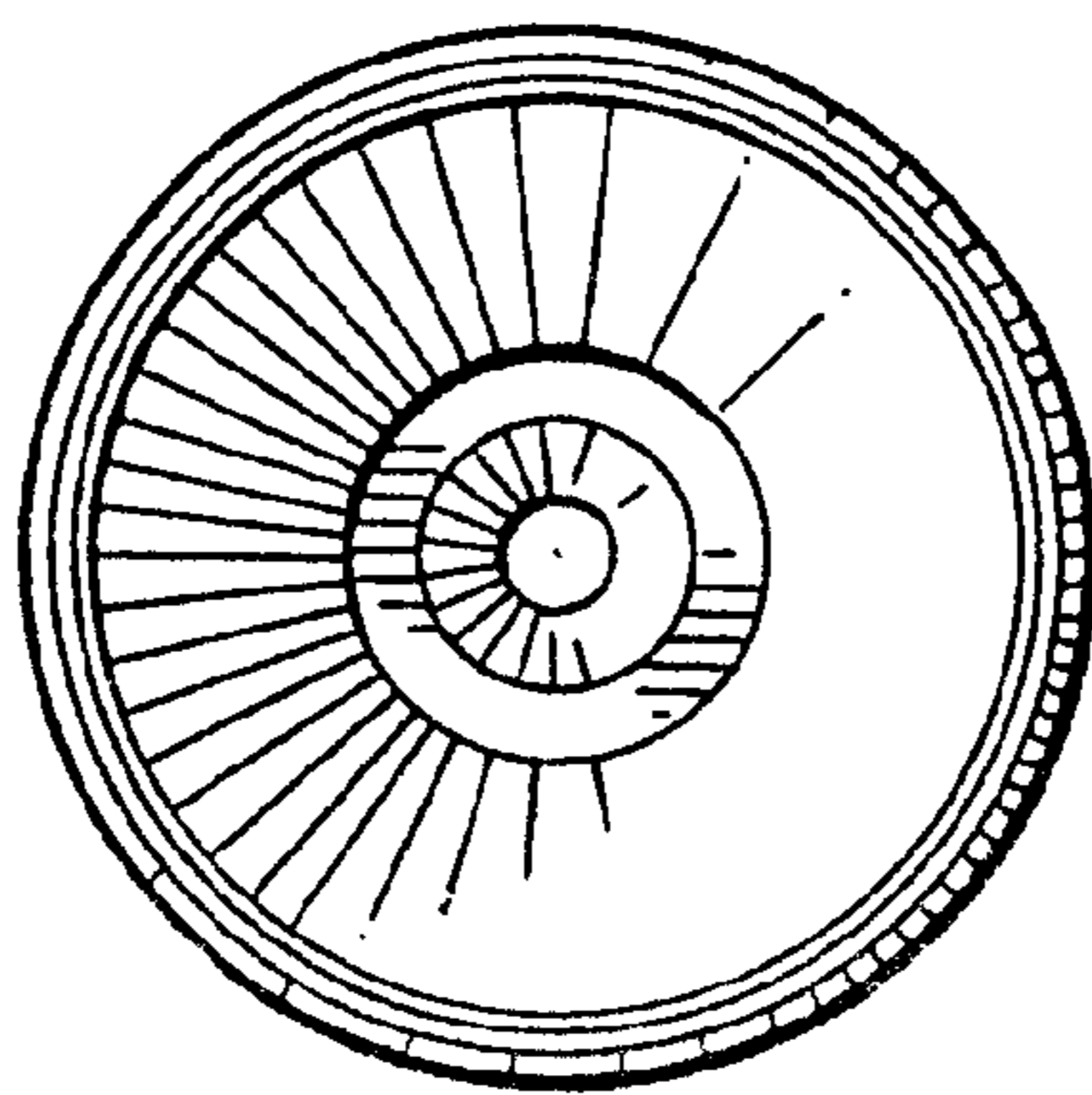


FIG. 4

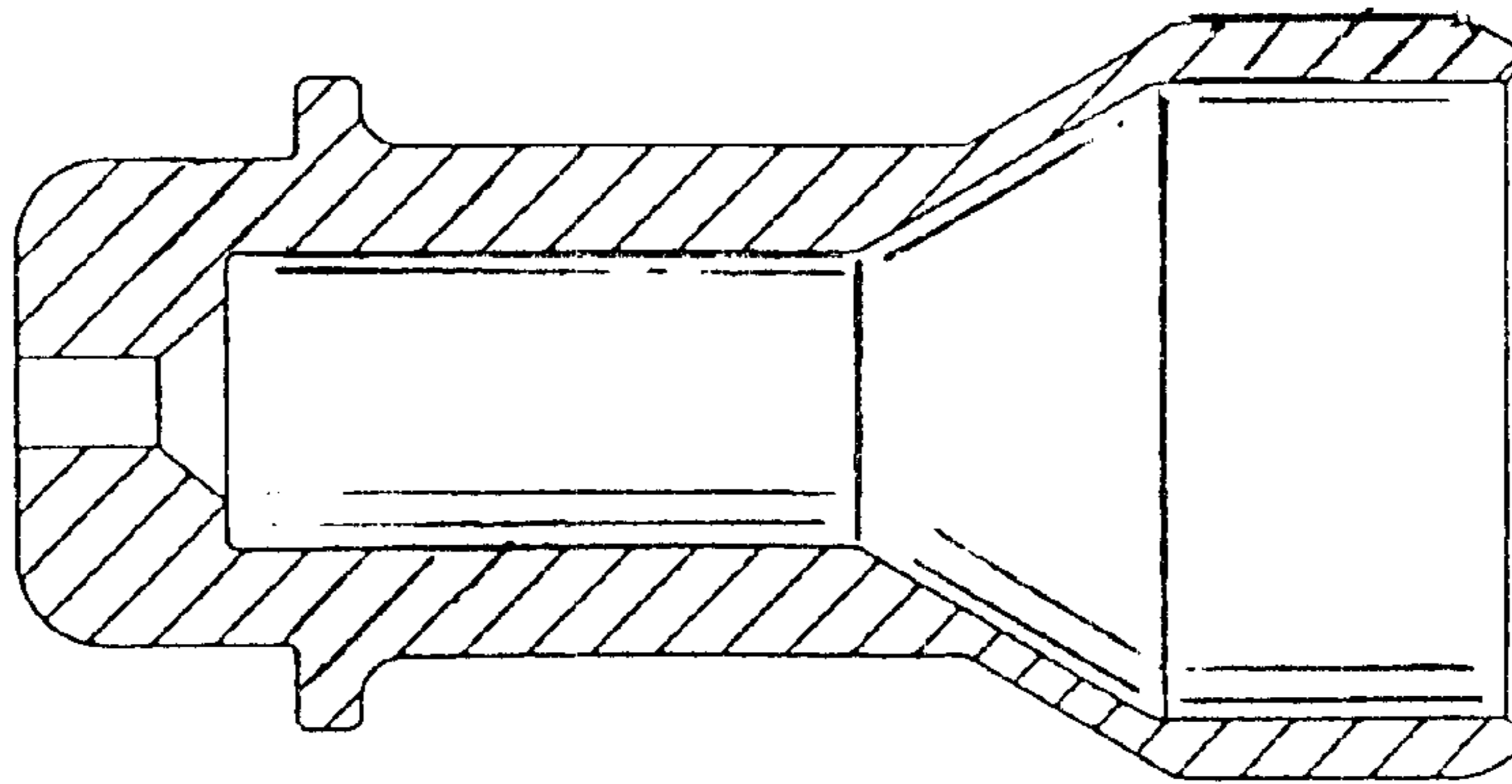


FIG. 6