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United States Patent [19]

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Beckman

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[54] COMBINED IMPACTOR AND EXTRACTOR FOR PROSTHETIC IMPLANTS

[75] Inventor: Audrey M. Beckman, Warsaw, Ind.

[73] Assignee: Zimmer, Inc., Warsaw, Ind.

[**] Term: 14 Years

[21] Appl. No.: 618,328

[22] Filed: Nov. 21, 1990

[52] U.S. Cl. D24/133; D24/142

[58] Field of Search D24/133, 142, 146, 147; 227/147, 14, 152; 623/23, 18, 22, 20; 606/81, 91, 88, 89, 90, 91, 53

Zimmer, Inc.—1990 MG II Knee System—Tibial and Femoral Impactor.

Zimmer, Inc. 1987 Catalog (p. A43)—Slaphammer 6651-06.

Zimmer, Inc. 1981 Catalog (p. A172)—Femoral Impactor/Extractor for Attenborough Knee.

Zimmer, Inc. 1990—I/B II Tibial Tray Provisional Extractor.

Zimmer, Inc. 1987 Catalog (p. F6)—Series 3 Oscillating Saw Wrench.

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Assistant Examiner—Ian Simmons

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[57] CLAIM

The ornamental design for a combined impactor and extractor for prosthetic implants, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a combined impactor and extractor for prosthetic implants showing my new design;

FIG. 2 is a side elevational view thereof;

FIG. 3 is a rear elevational view thereof, opposite to the front view seen in FIG. 1 and with the jaws in a closed position;

FIG. 4 is a side elevational view thereof opposite that shown in FIG. 2;

FIG. 5 is an end elevational view thereof, with the jaws in an open position;

FIG. 6 is an end elevational view thereof, with the jaws in a closed position;

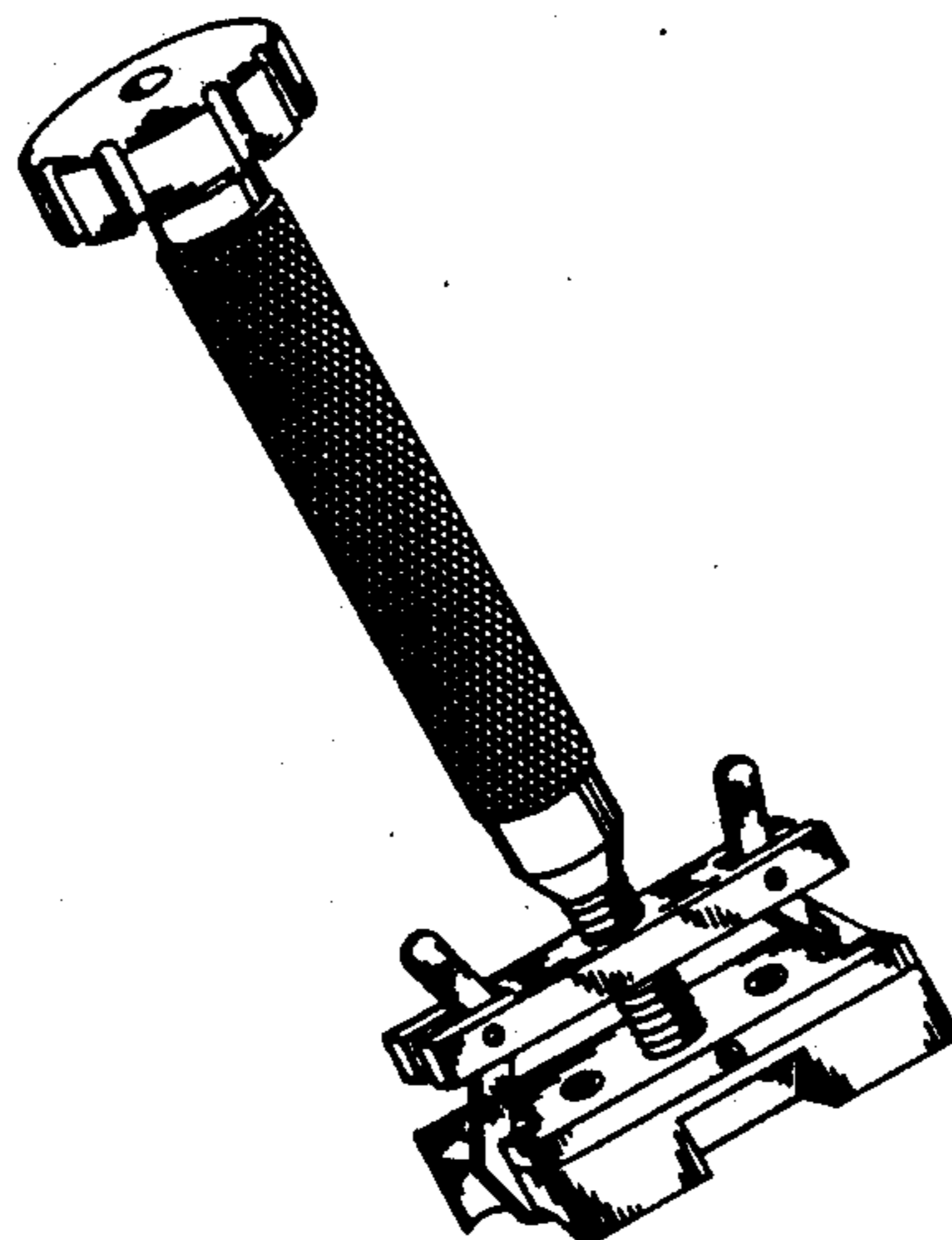
FIG. 7 is an end elevational view thereof, opposite to that shown in FIG. 6;

FIG. 8 is a cross-sectional view thereof taken along lines 8—8 of FIG. 2;

FIG. 9 is a cross-sectional view thereof taken along lines 9—9 of FIG. 2;

FIG. 10 is a rear elevational view thereof, with the jaws in an open position; and,

FIG. 11 is a cross-sectional view thereof taken along lines 11—11 of FIG. 4.



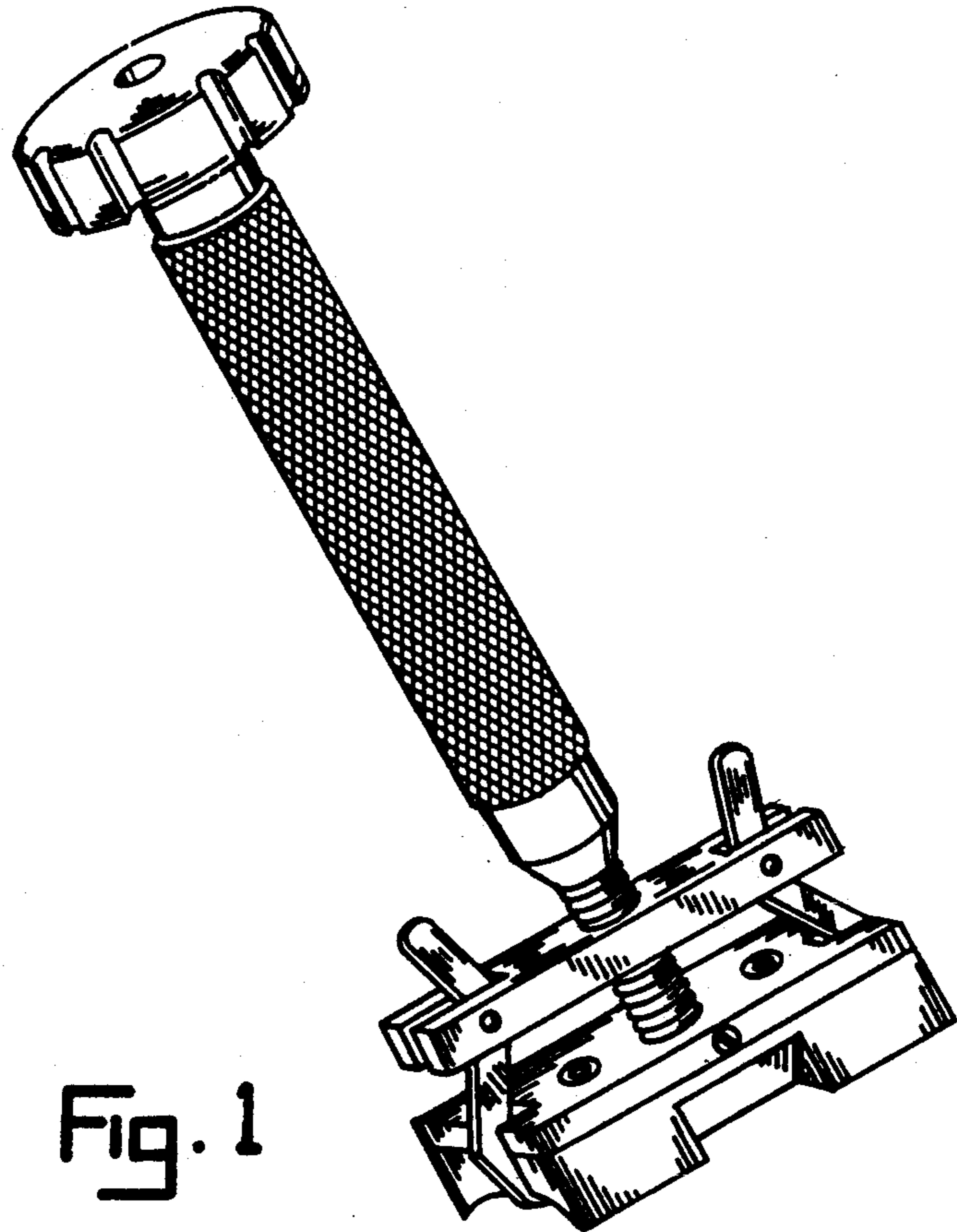


Fig. 1

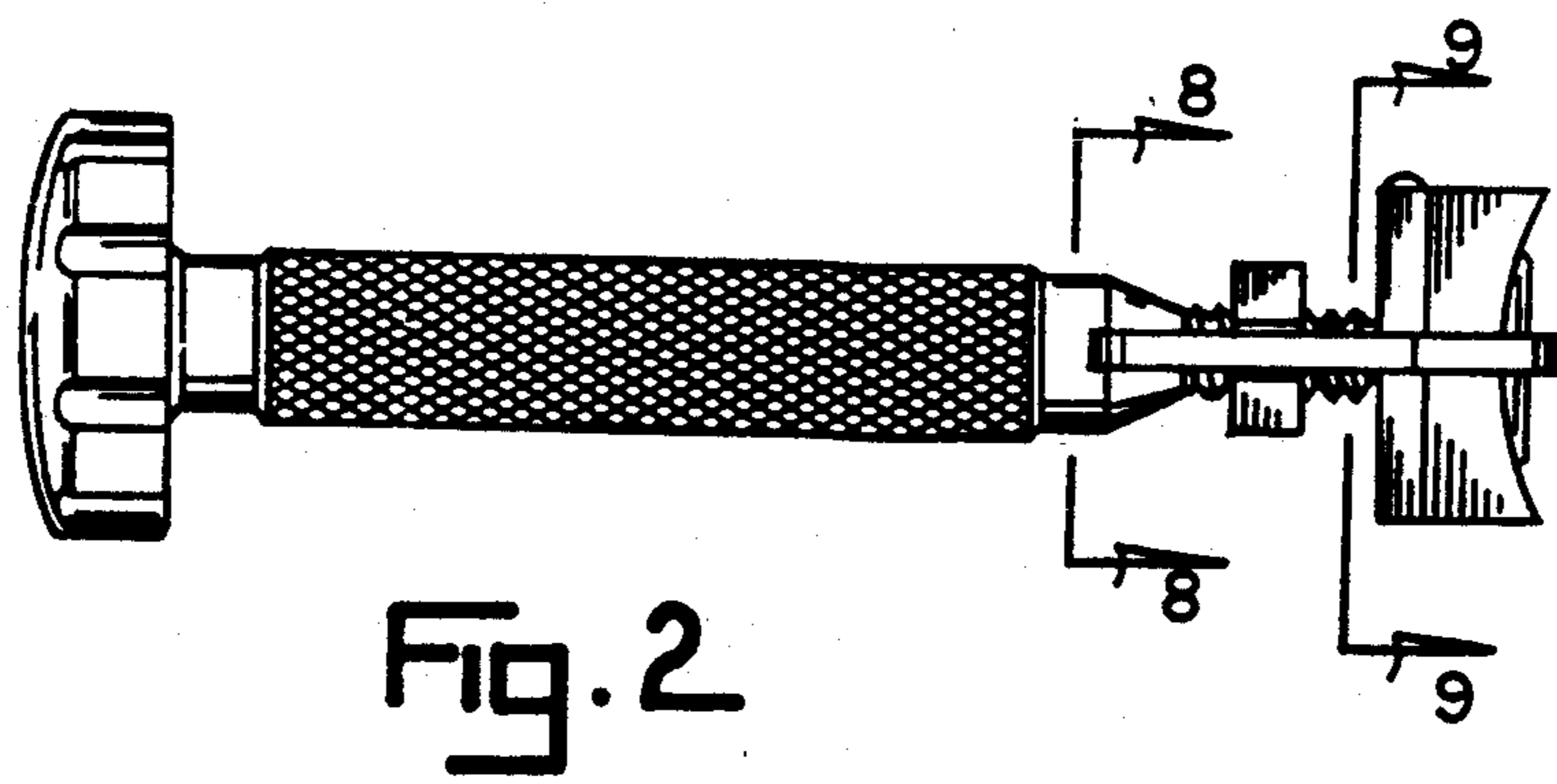


Fig. 2

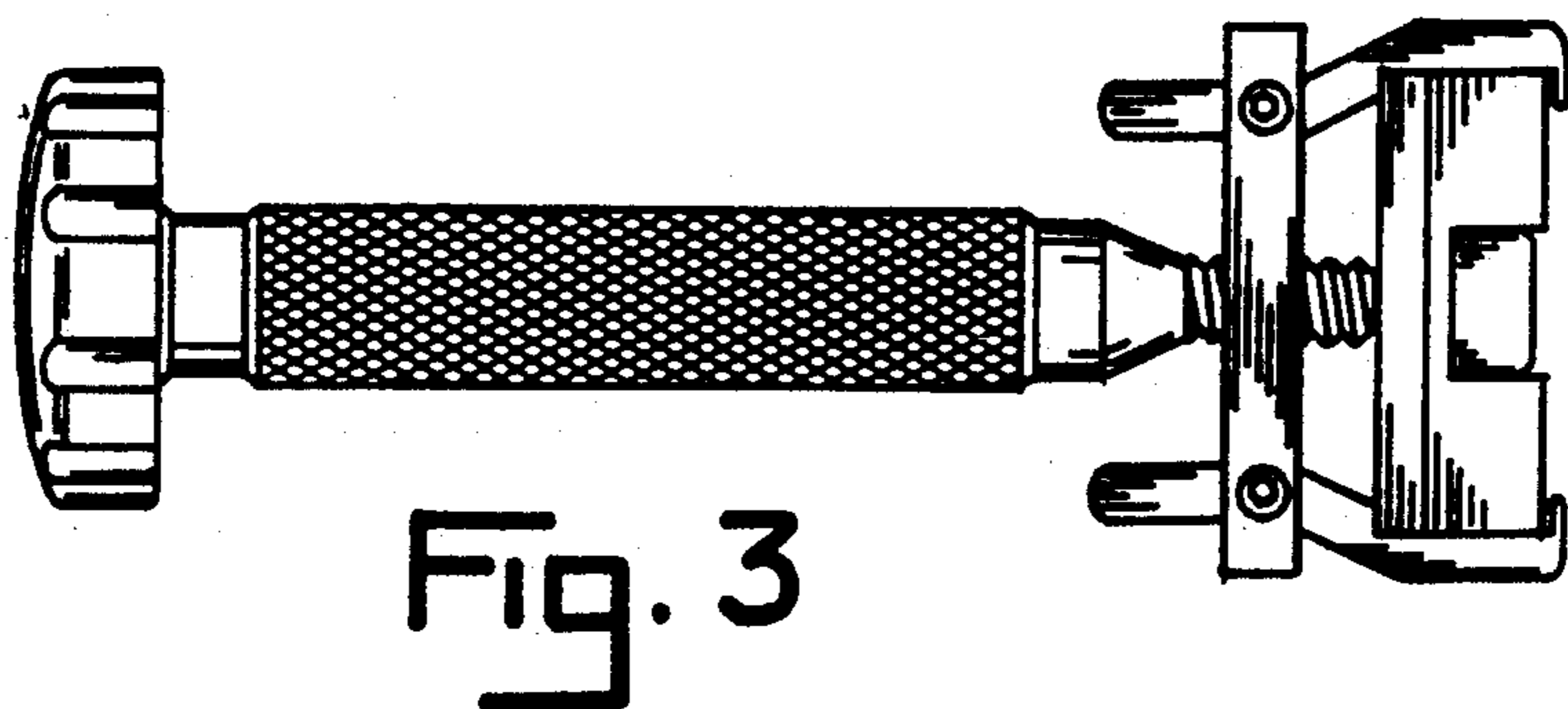


Fig. 3

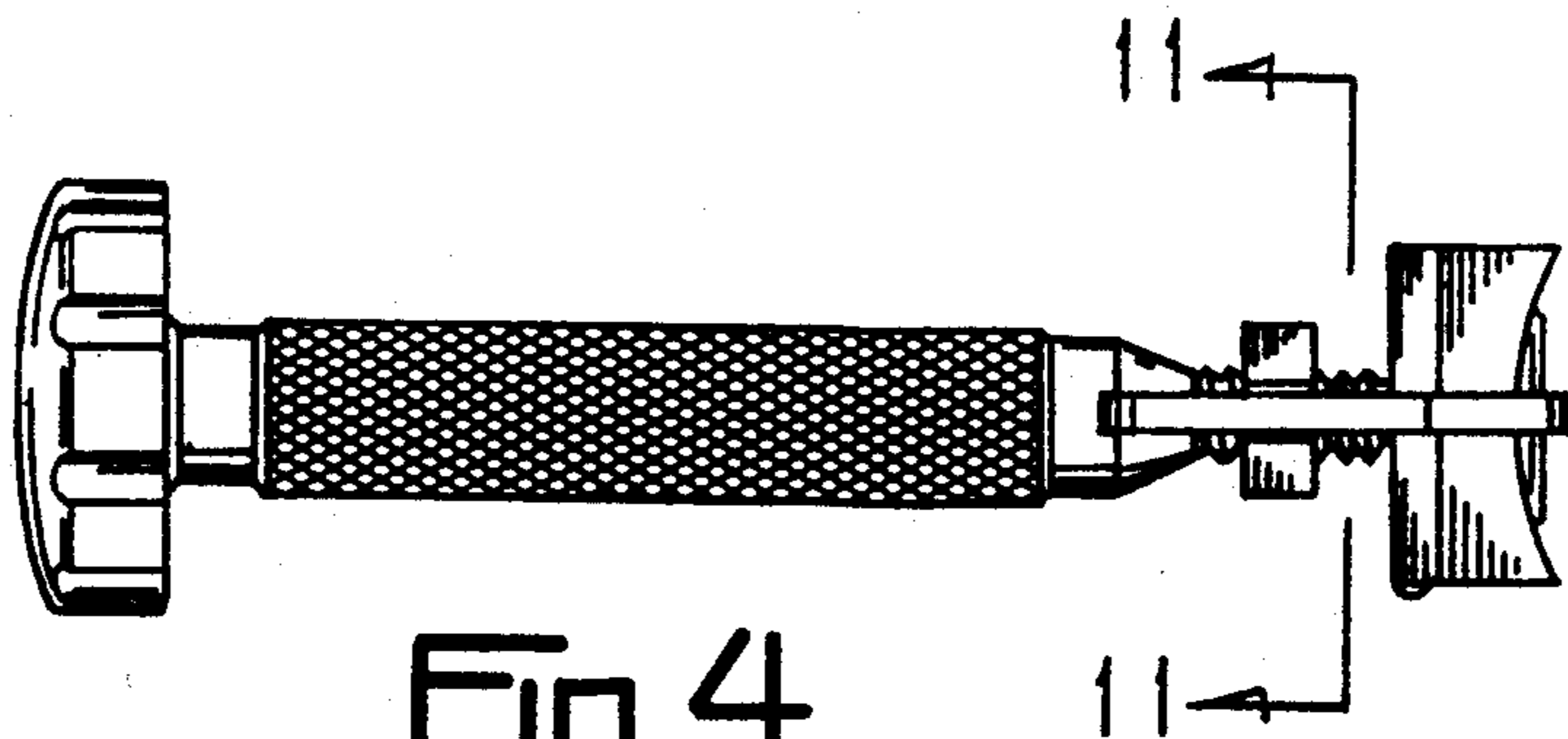


Fig. 4

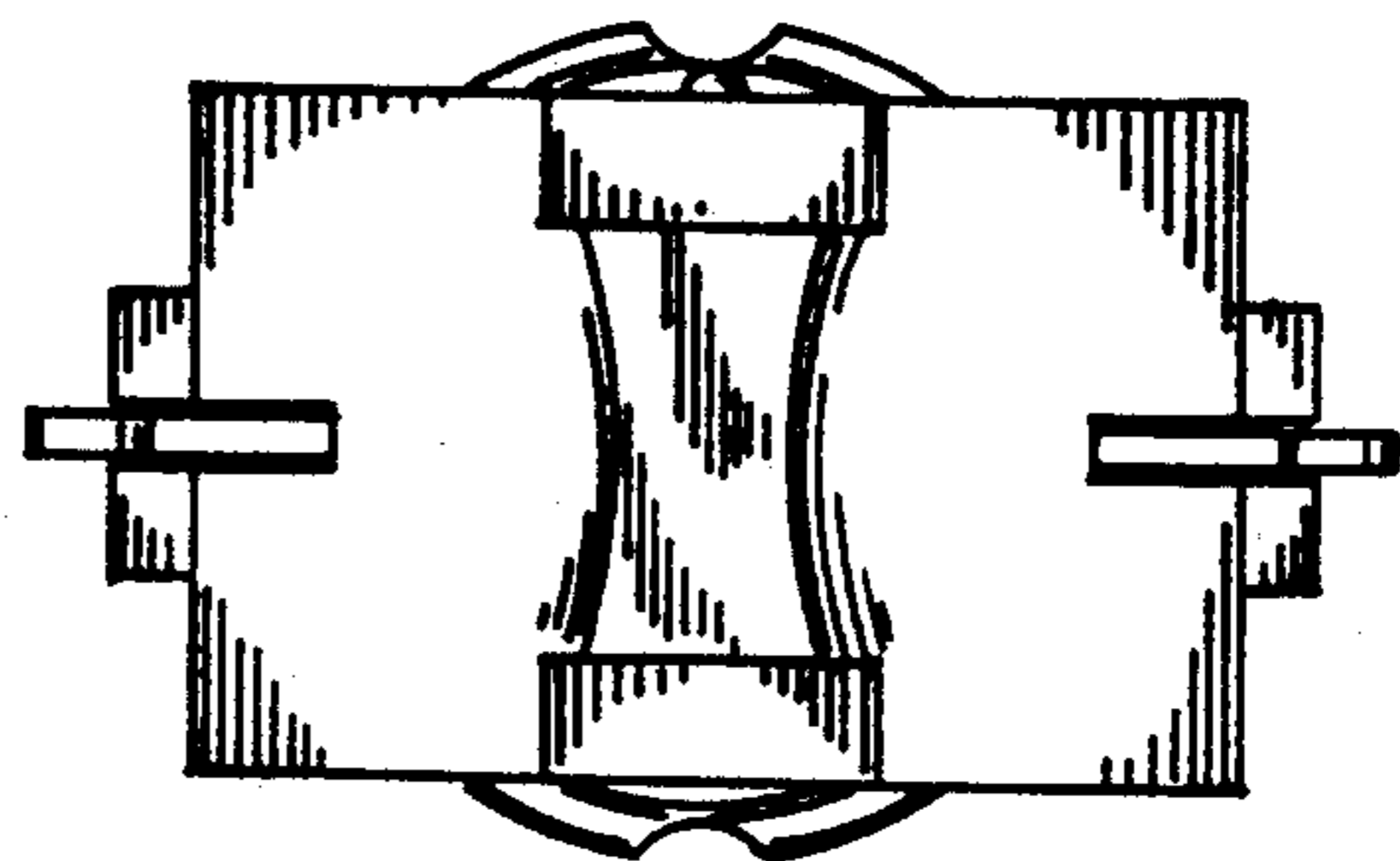


Fig. 5

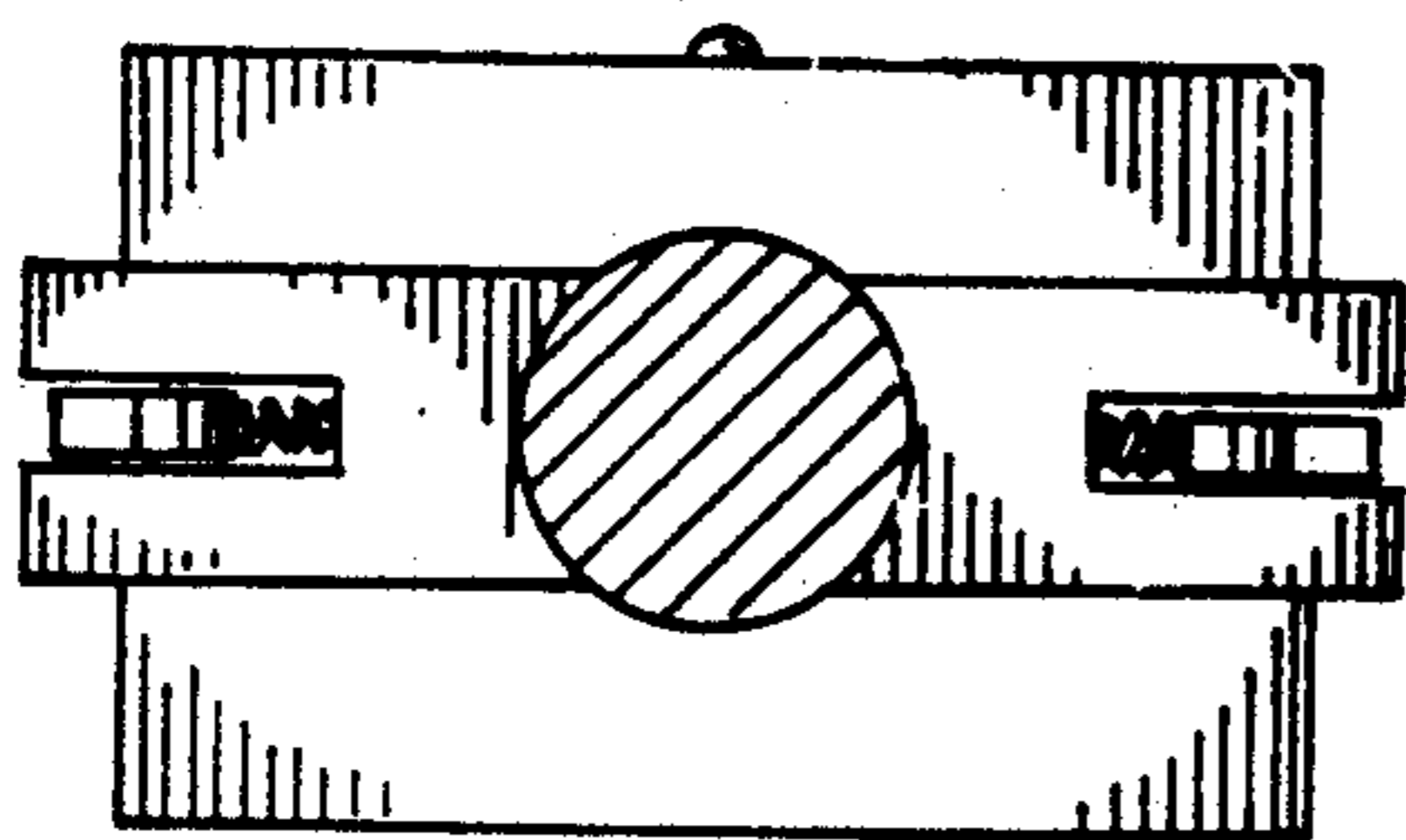


Fig. 8

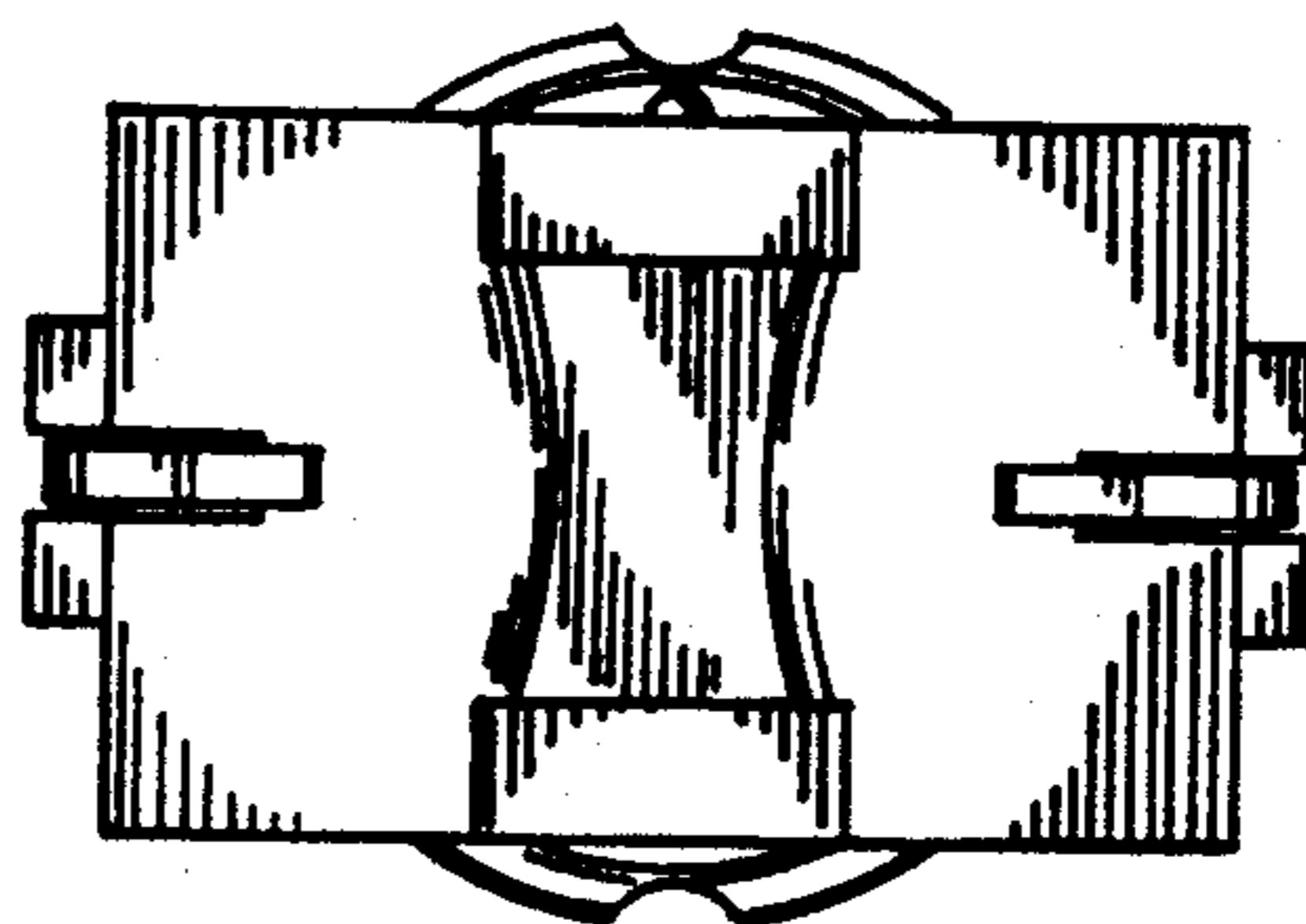


Fig. 6

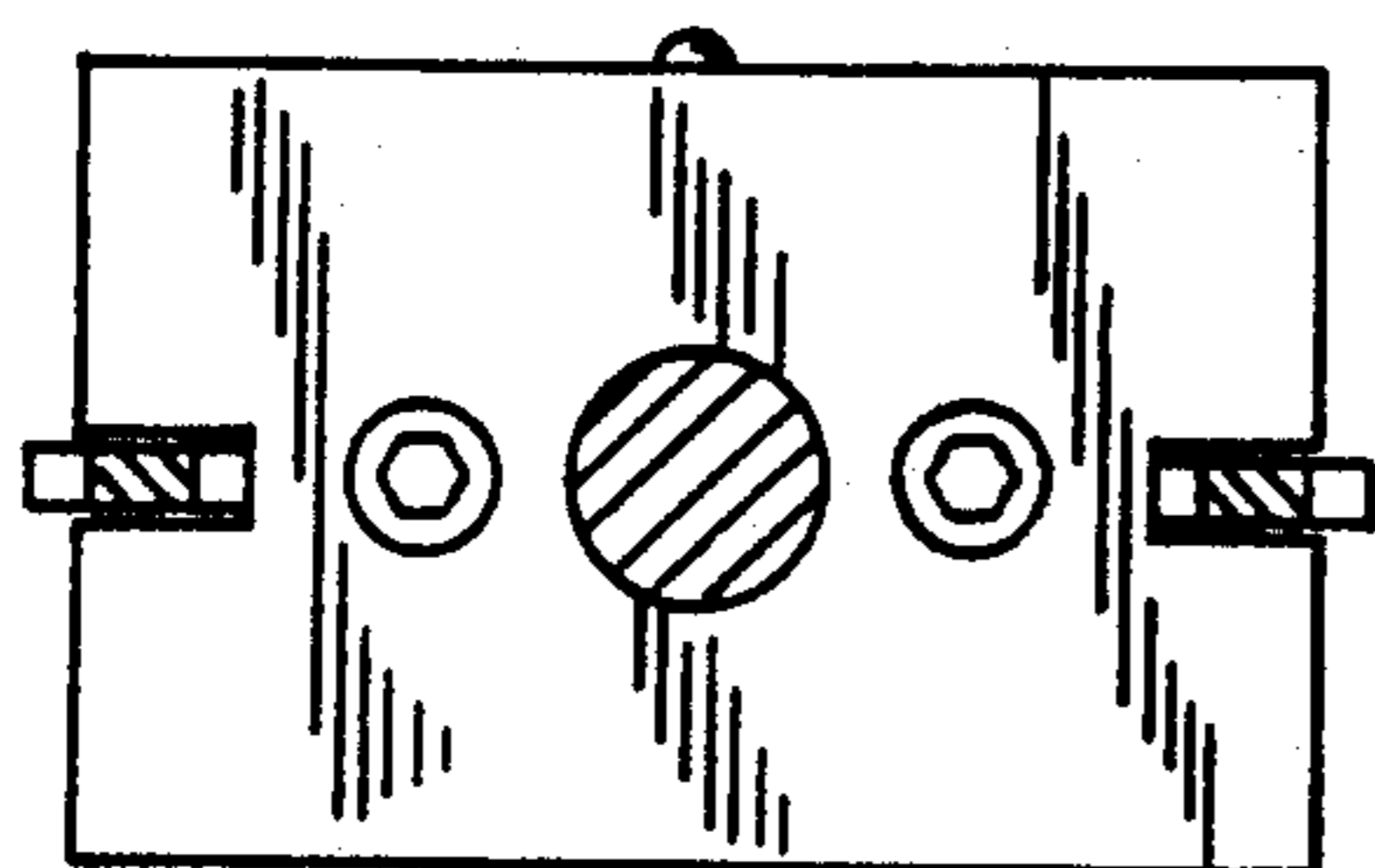


Fig. 9

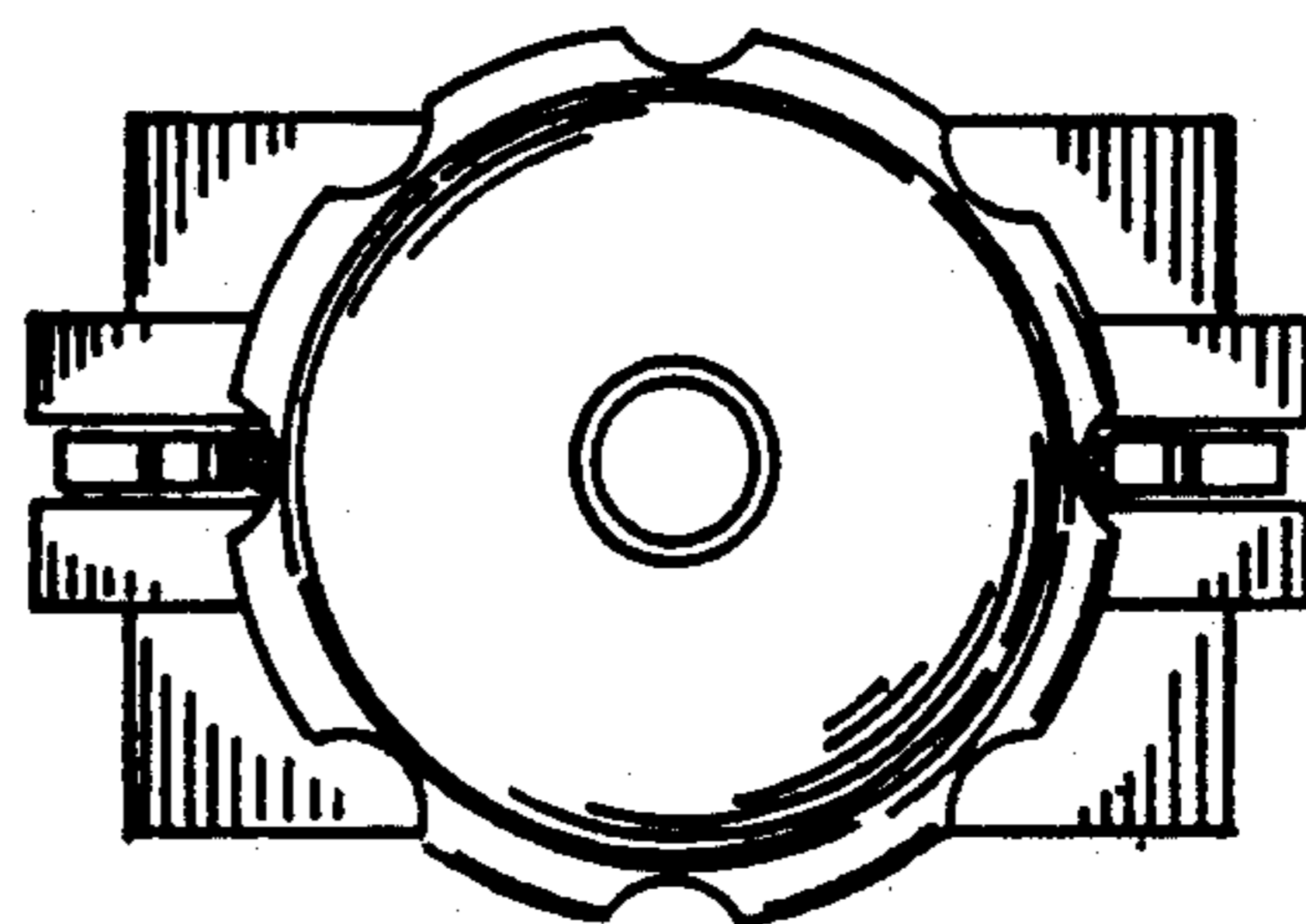


Fig. 7

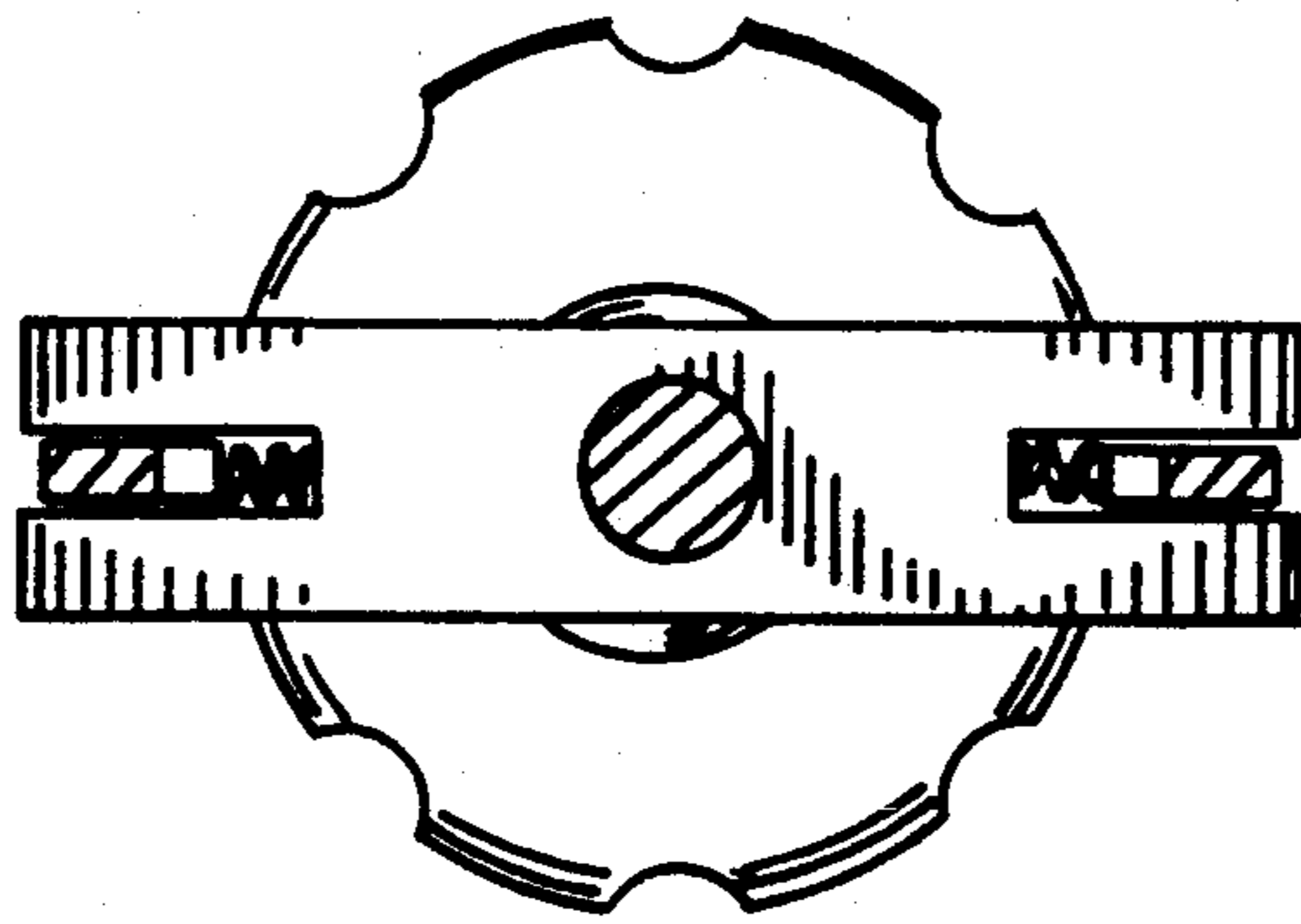


Fig. 11

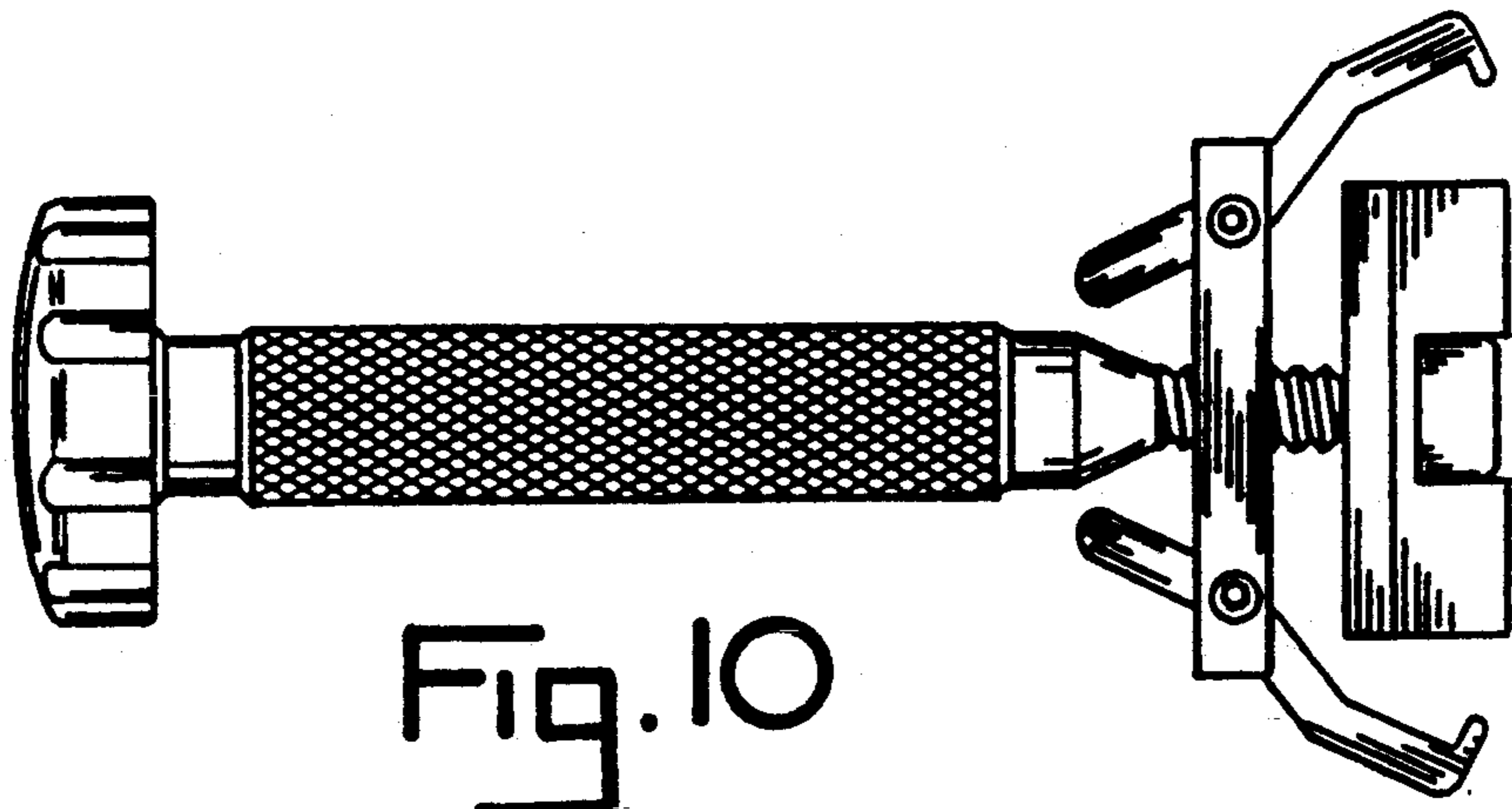


Fig. 10