



US00D610177S

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

(10) **Patent No.:** **US D610,177 S**

(45) **Date of Patent:** **** Feb. 16, 2010**

(54) **COLLET-LESS BORING BAR DEVICE**

2007/0283794 A1 12/2007 Giannetti

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* cited by examiner

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

(21) Appl. No.: **29/315,732**

(22) Filed: **Jul. 20, 2009**

(57) **CLAIM**

The ornamental design for a collet-less boring bar device, as shown and described.

(51) **LOC (9) Cl.** **15-09**

(52) **U.S. Cl.** **D15/139**

(58) **Field of Classification Search** D8/70;
D15/138, 139, 140; 407/25, 30, 34–39, 43,
407/48, 53, 55, 56, 61, 97–100, 113, 114;
408/187, 199, 713

See application file for complete search history.

DESCRIPTION

FIG. 1 is a front view of one embodiment of the collet-less boring bar device embodying my new design,

FIG. 2 is a rear view of the collet-less boring bar device of FIG. 1,

FIG. 3 is a right side view of the collet-less boring bar device of FIG. 1,

FIG. 4 is a left side view of the collet-less boring bar device of FIG. 1,

FIG. 5 is a top view of the collet-less boring bar device of FIG. 1,

FIG. 6 is a bottom view of the collet-less boring bar device of FIG. 1,

FIG. 7 is perspective view of the collet-less boring bar device of FIG. 1; and,

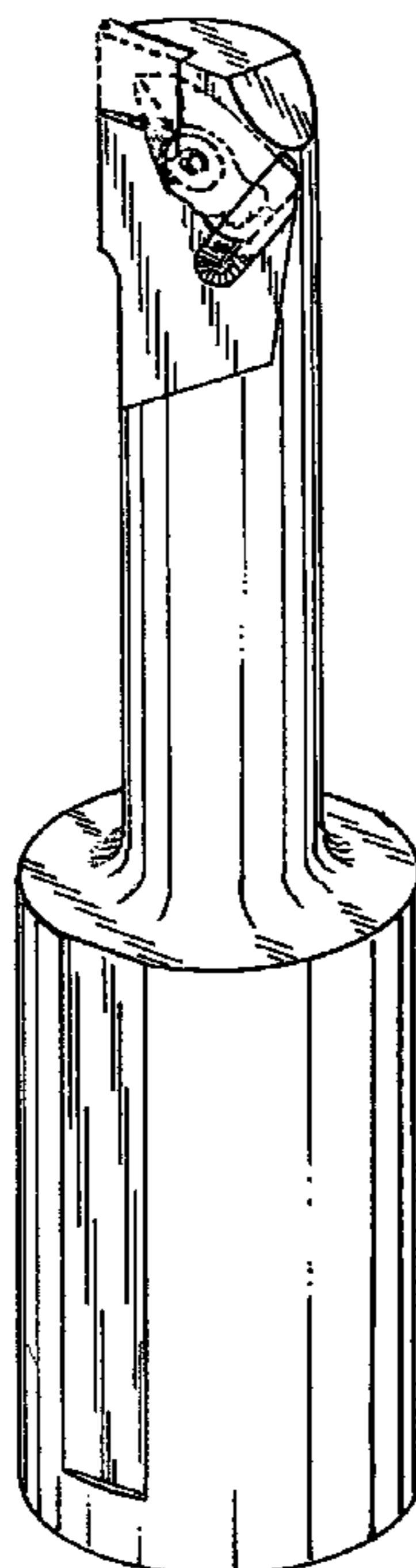
FIG. 8 is a perspective view of the collet-less boring bar device of FIG. 1 with phantom lines indicating a bit and clamp secured to the device for reference only, the bit and clamp not being included as part of the disclosed invention.

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1 Claim, 7 Drawing Sheets



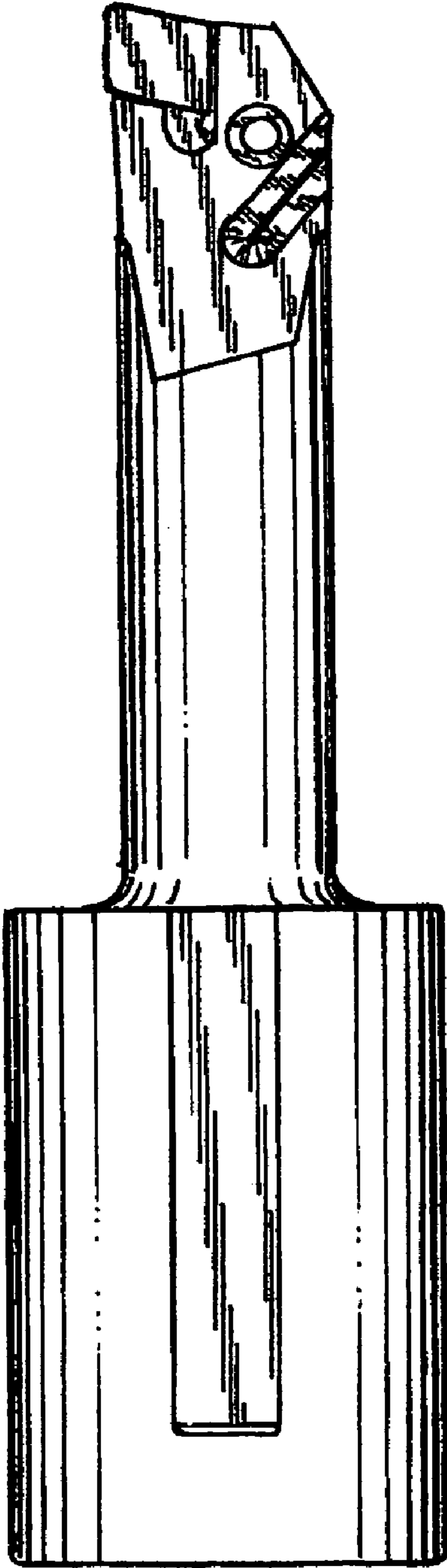


Figure 1

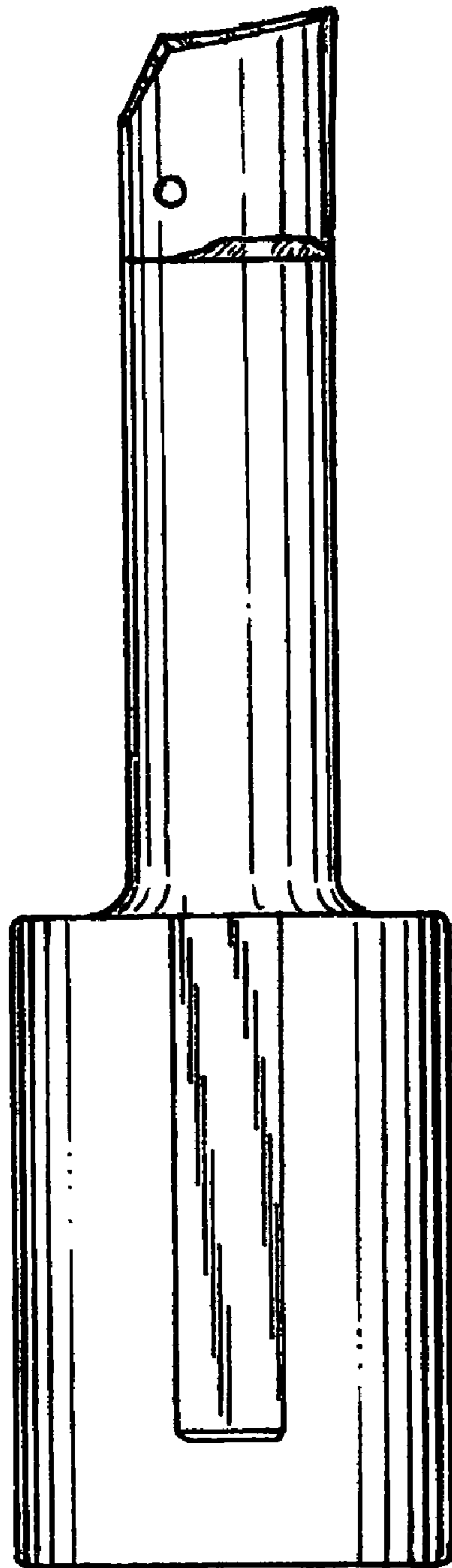


Figure 2

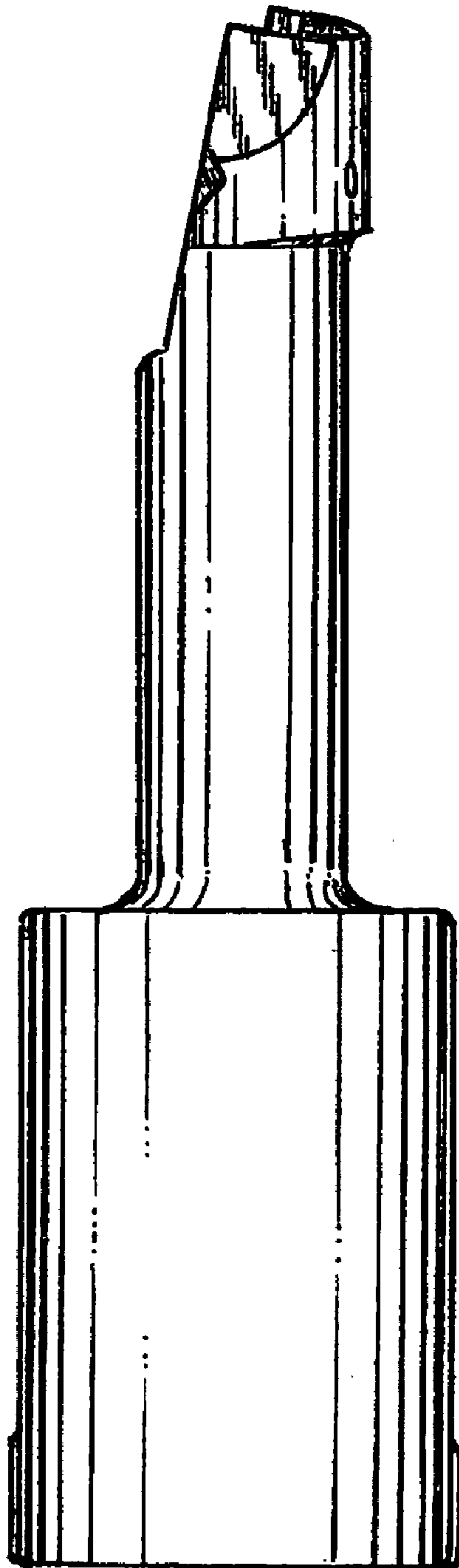


Figure 3

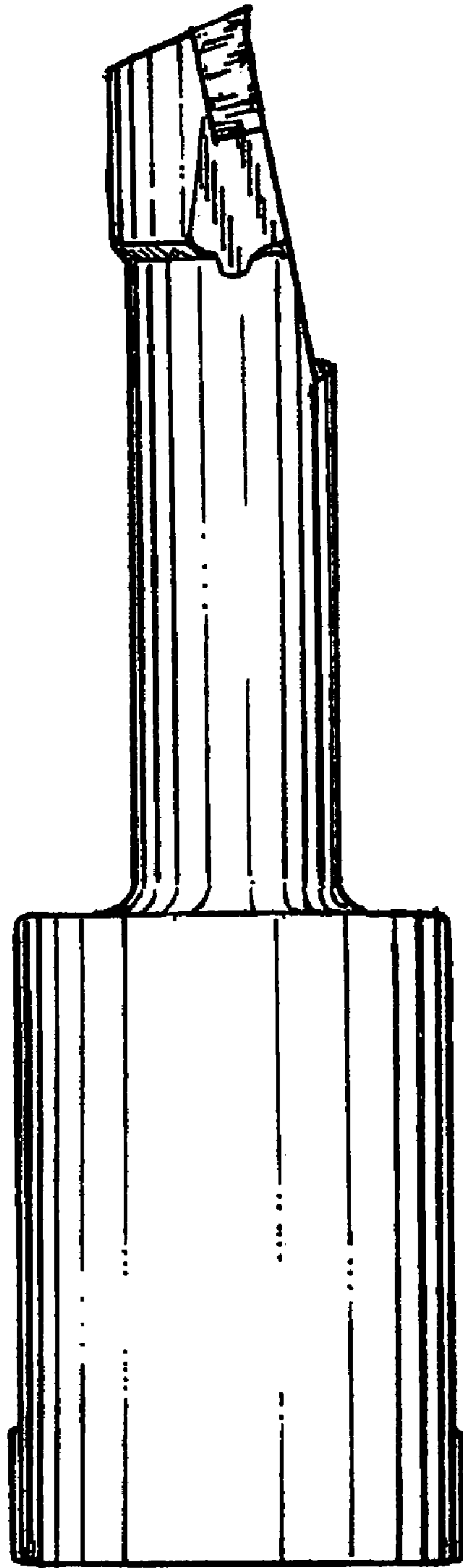


Figure 4

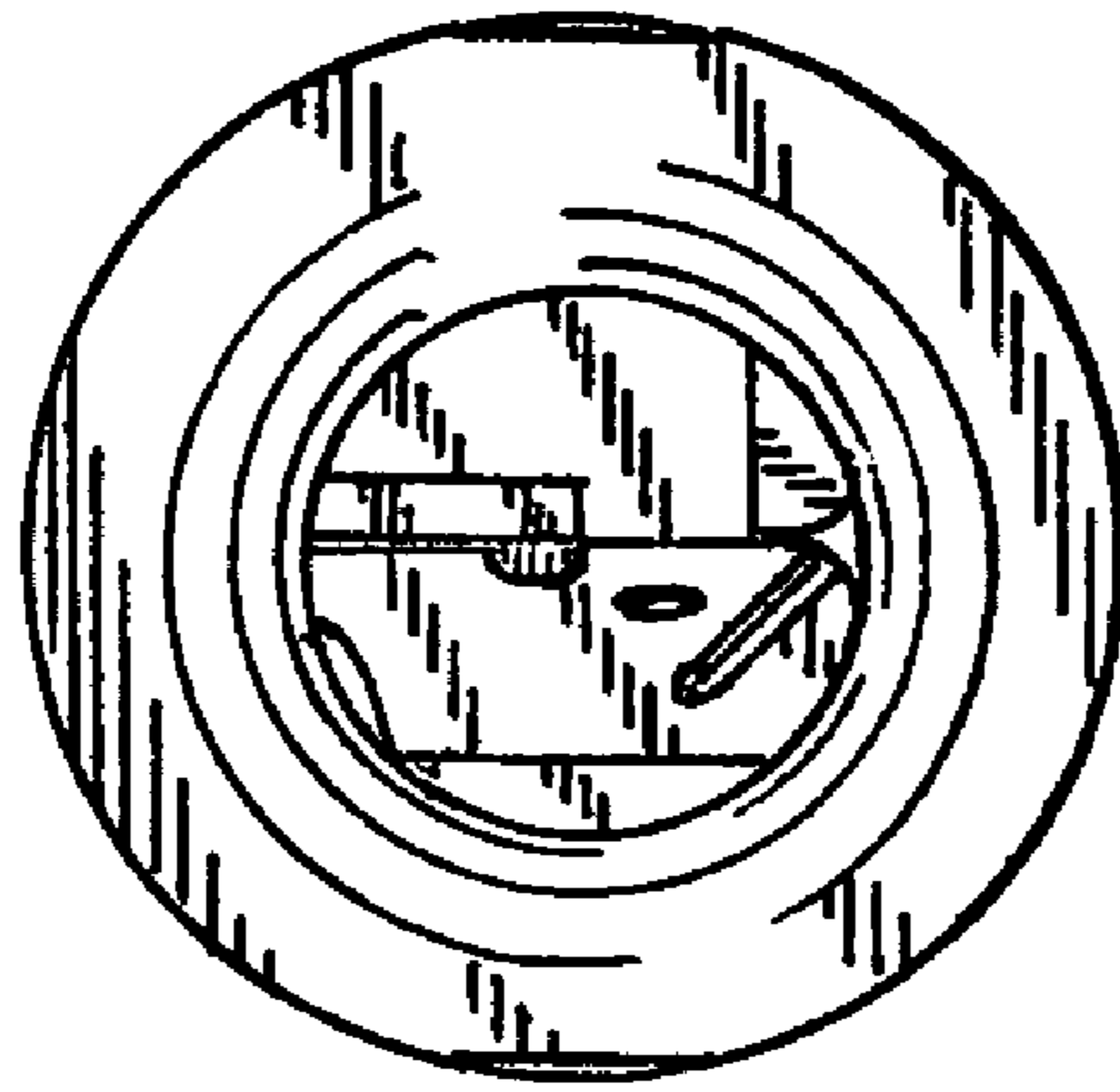


Figure 5

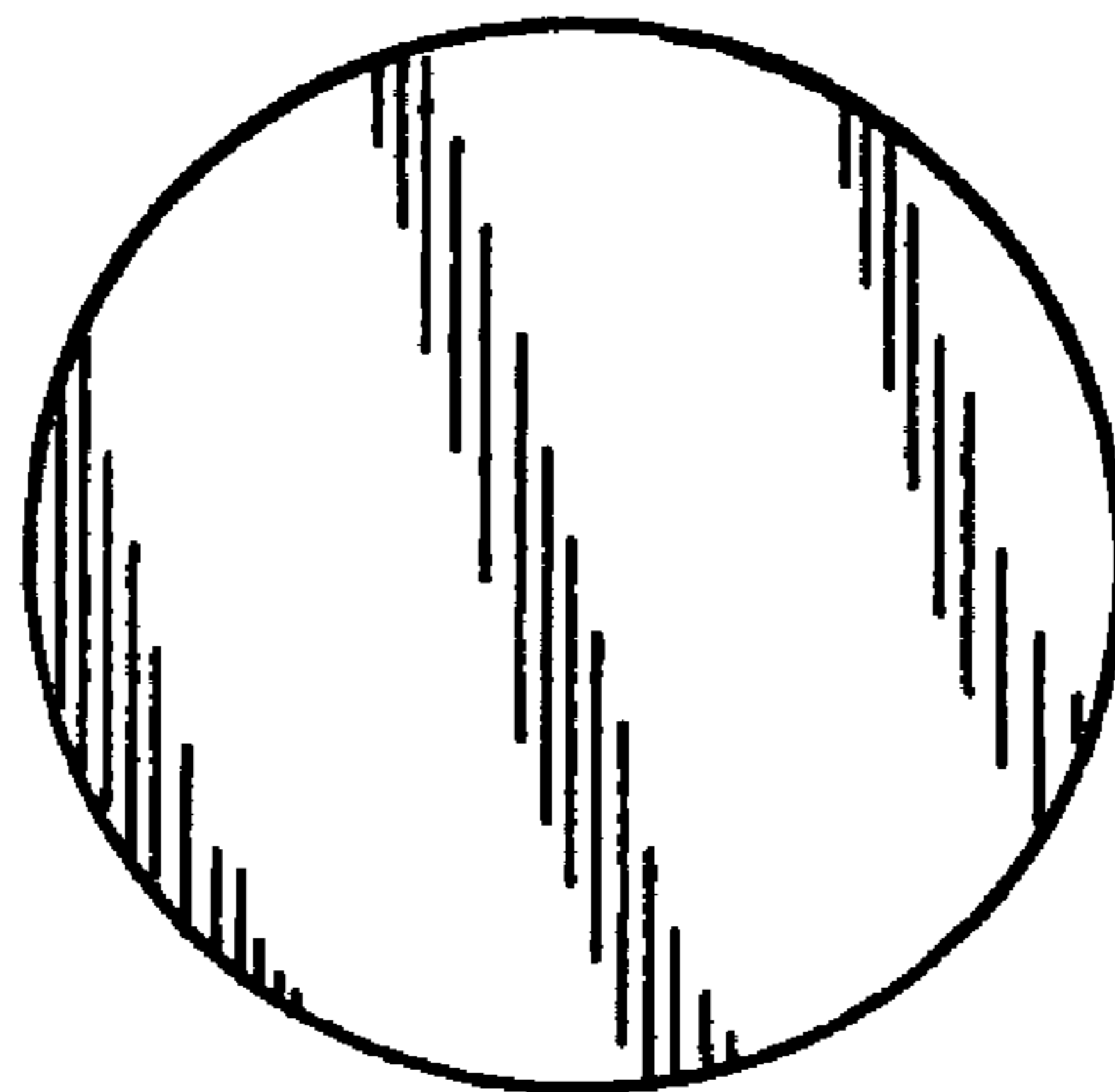


Figure 6

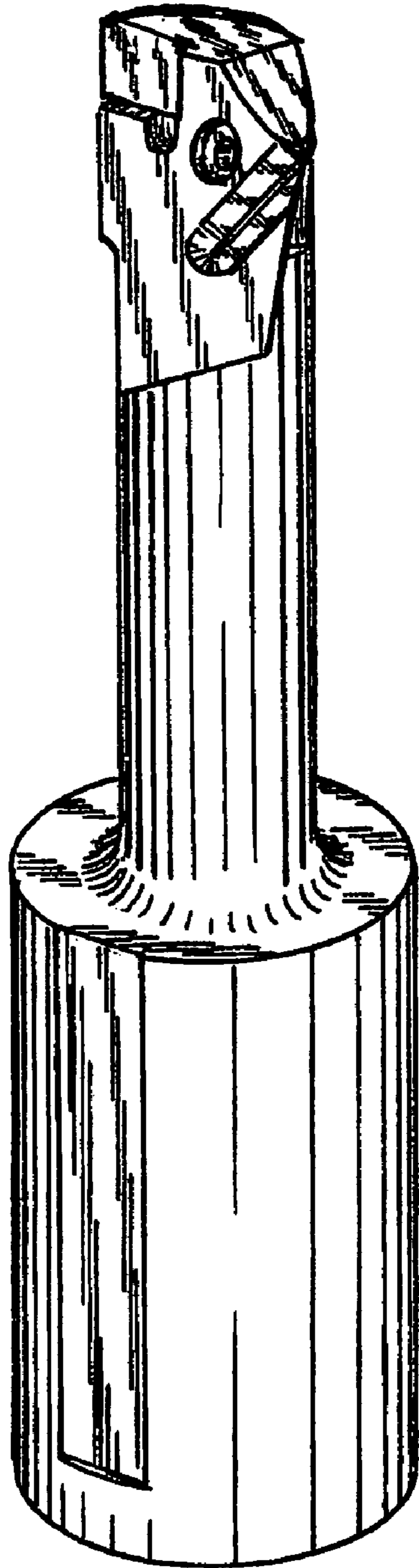


Figure 7

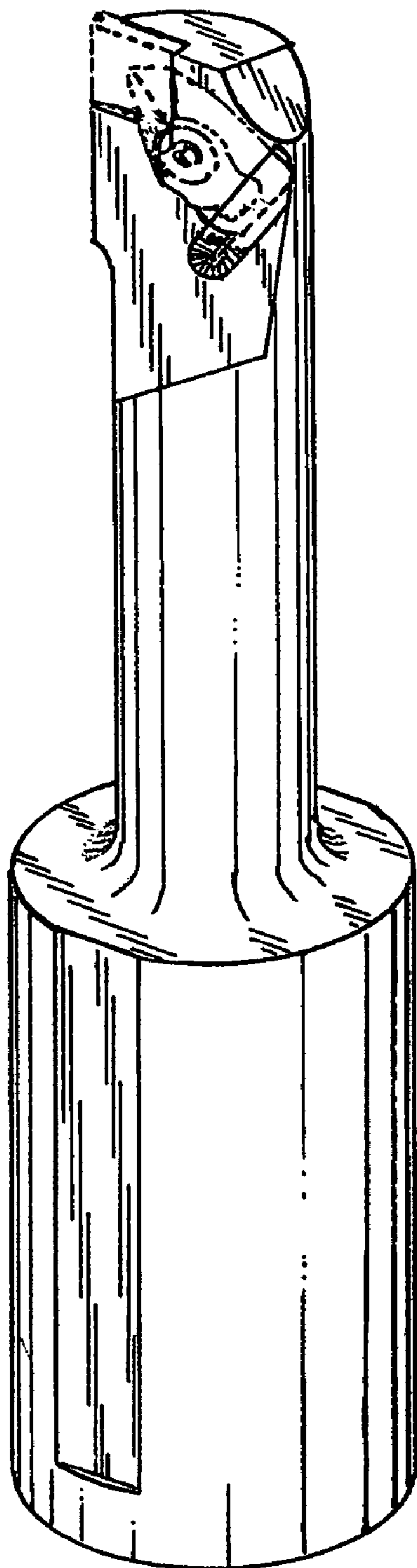


Figure 8