

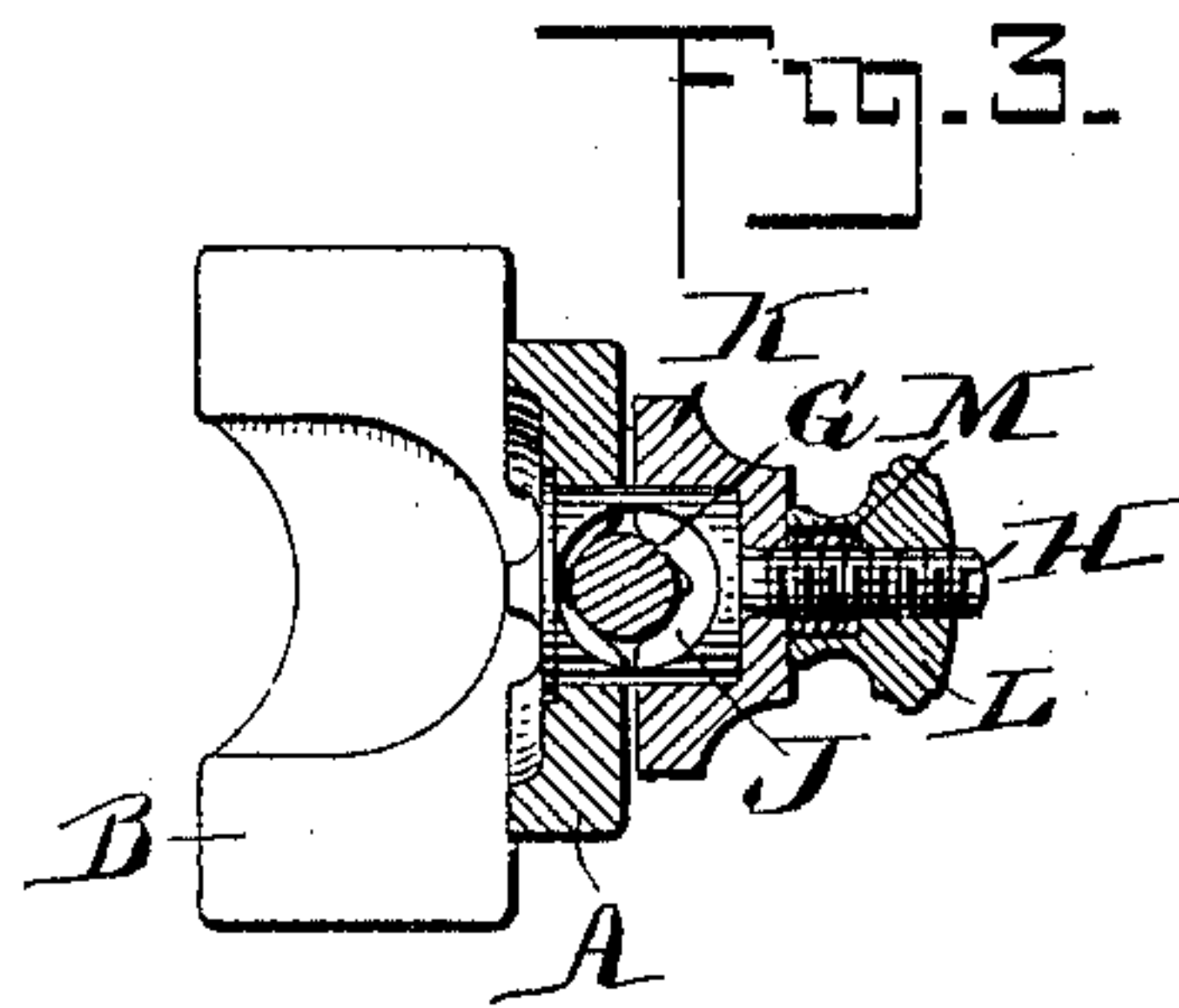
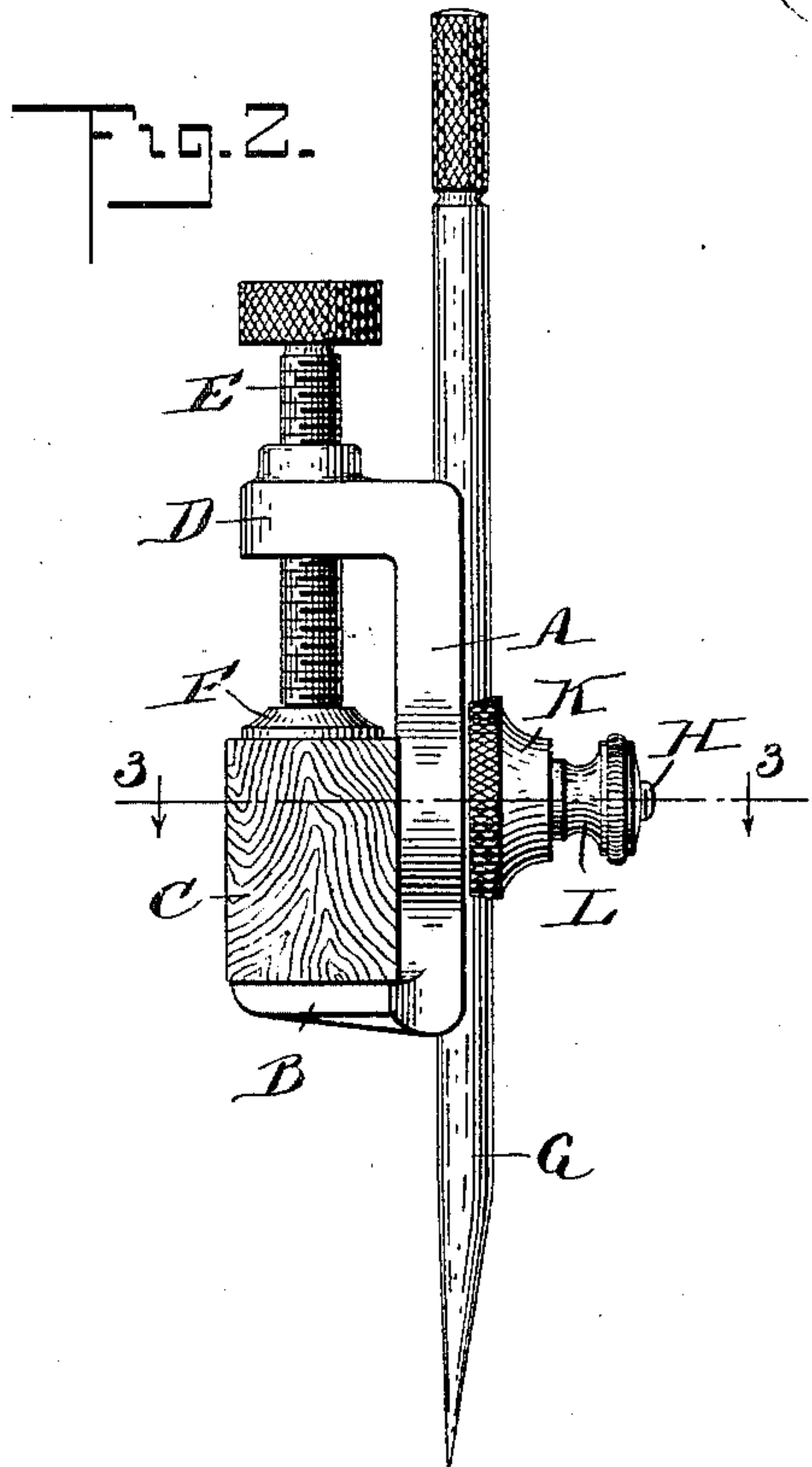
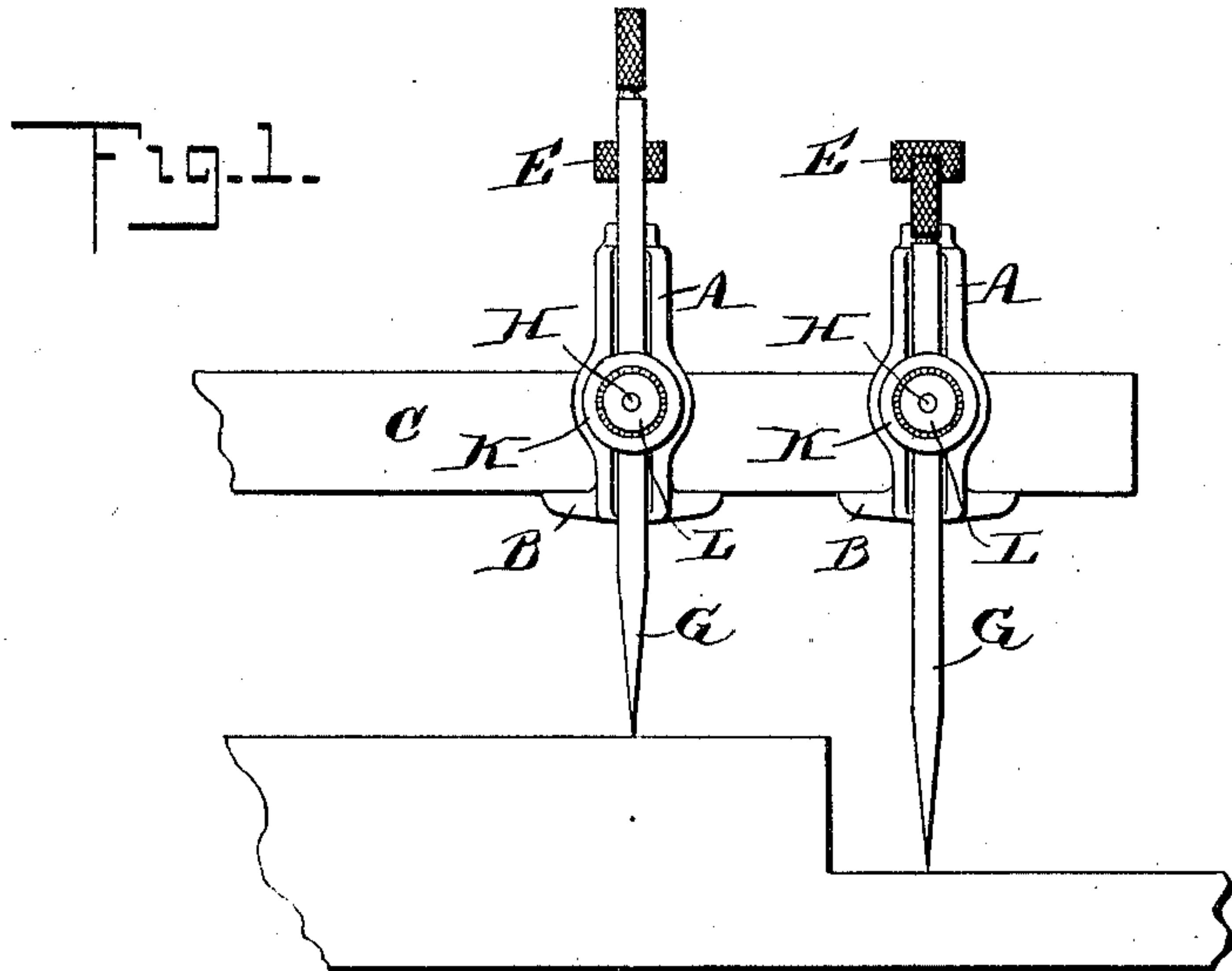
No. 692,215.

Patented Jan. 28, 1902.

L. S. STARRETT.
TOOL HOLDING DEVICE.

(Application filed May 3, 1901.)

(No Model.)



Witnesses=
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UNITED STATES PATENT OFFICE.

LAROE S. STARRETT, OF ATHOL, MASSACHUSETTS, ASSIGNOR TO THE L. S. STARRETT COMPANY, OF ATHOL, MASSACHUSETTS, A CORPORATION OF MASSACHUSETTS.

TOOL-HOLDING DEVICE.

SPECIFICATION forming part of Letters Patent No. 692,215, dated January 28, 1902.

Application filed May 3, 1901. Serial No. 58,570. (No model.)

To all whom it may concern:

Be it known that I, LAROE S. STARRETT, of Athol, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Tool-Holding Devices, of which the following is a specification.

The object of this invention is to provide a clamping device of a form especially adapted to hold trammel-points and like tools firmly in position adjustably along a bar to which it is desired to secure one or more of such tools.

My improvement is embodied in a screw-clamp of otherwise suitable form having its outer face grooved to receive the trammel or like tool, the body of such clamp having a central perforation through such groove, in combination with a threaded screw having an enlarged head and stem seated in said perforation, a transverse opening through the screw body or stem for passage of the trammel-point, a grooved cap fitting over such parts, and a terminal nut and interposed spring on said screw to hold the tool firmly or frictionally.

Details of construction are hereinafter pointed out, and the novel combinations specified in the claims.

In the drawings, Figure 1 is an elevation showing two of my improved clamps applied to a bar and holding trammel-points. Fig. 2 is an enlarged edge view of the device in position for use, and Fig. 3 a horizontal section on line 3 3 of Fig. 2.

A is the body of the clamp, a fine casting having a broad foot portion B extending horizontally beneath the bar C, a corresponding head portion D, threaded to receive the clamp-screw E, which has the usual loose button F at its tip. A novel feature of this clamp-body A is the grooving of its outer vertical face to receive the trammel-point G or a pencil or other tool. As indicated in Figs. 2 and 3, the vertical groove has a depth equal to about half the diameter of trammel G. Another peculiarity of the clamp-body is that the inner face of its vertical portion is recessed or hollowed out, leaving the margins materially

thicker than elsewhere. A central vertical rib is also formed on this inner face opposite and as a reinforce to the groove. (See Fig. 3.)

About midway of its height the vertical part of the clamp-body is broadened and then narrowed on curved lines, and through the center of this enlargement a circular aperture is formed, countersunk on its inner face. Through this aperture there projects a threaded screw H, the enlarged body or stem of which has a terminal flange fitting said countersink. (See Fig. 3.) Such body also has a large transverse perforation J, through which the trammel-point or like tool passes. A hollow cap K, notched in its inner face to fit on the trammel, is slipped onto the screw H, covering and concealing its enlarged perforated part, while its reduced threaded part protrudes, as in Fig. 3, to receive the terminal nut L. This nut is recessed, as shown, to receive a coiled spring M, surrounding said screw and bearing against the cap K. It will be seen that by tightening nut L the cap K is pressed inwardly against the trammel held in the groove in the clamp-body, and the flanged head of screw H is held closely in its countersunk seat. On loosening such nut the direct pressure is relaxed and the trammel is held adjustably, due to the action of spring M.

I claim as my invention—

1. The tool-holding clamp described, comprising the clamp A B D E, its vertical body being grooved to receive laterally a trammel or other tool, such body being formed with an intermediate enlargement having a transverse aperture in the plane of said groove, in combination with a screw having an enlarged stem located in said aperture, with a transverse perforation through it to receive such tool, and with a hollow cap and terminal nut on said screw to secure the tool in position, substantially as set forth.

2. The improved tool-holder, consisting of the clamp-body grooved in its vertical face and having an opening through it, intersecting such groove, in combination with a screw having a threaded tip, a countersunk head

and enlarged stem located in said opening,
and a transverse perforation through such
stem to receive the tool held in the grooves
of the clamp-body, and with a hollow notched
5 cap, terminal nut and interposed spring ar-
ranged on said screw, to secure the tool firmly
or frictionally, substantially as set forth.

In testimony whereof I have affixed my sig-
nature in presence of two witnesses.

LARROY S. STARRETT.

Witnesses:

DAVID FINDLAY,
FRANK E. WING.