

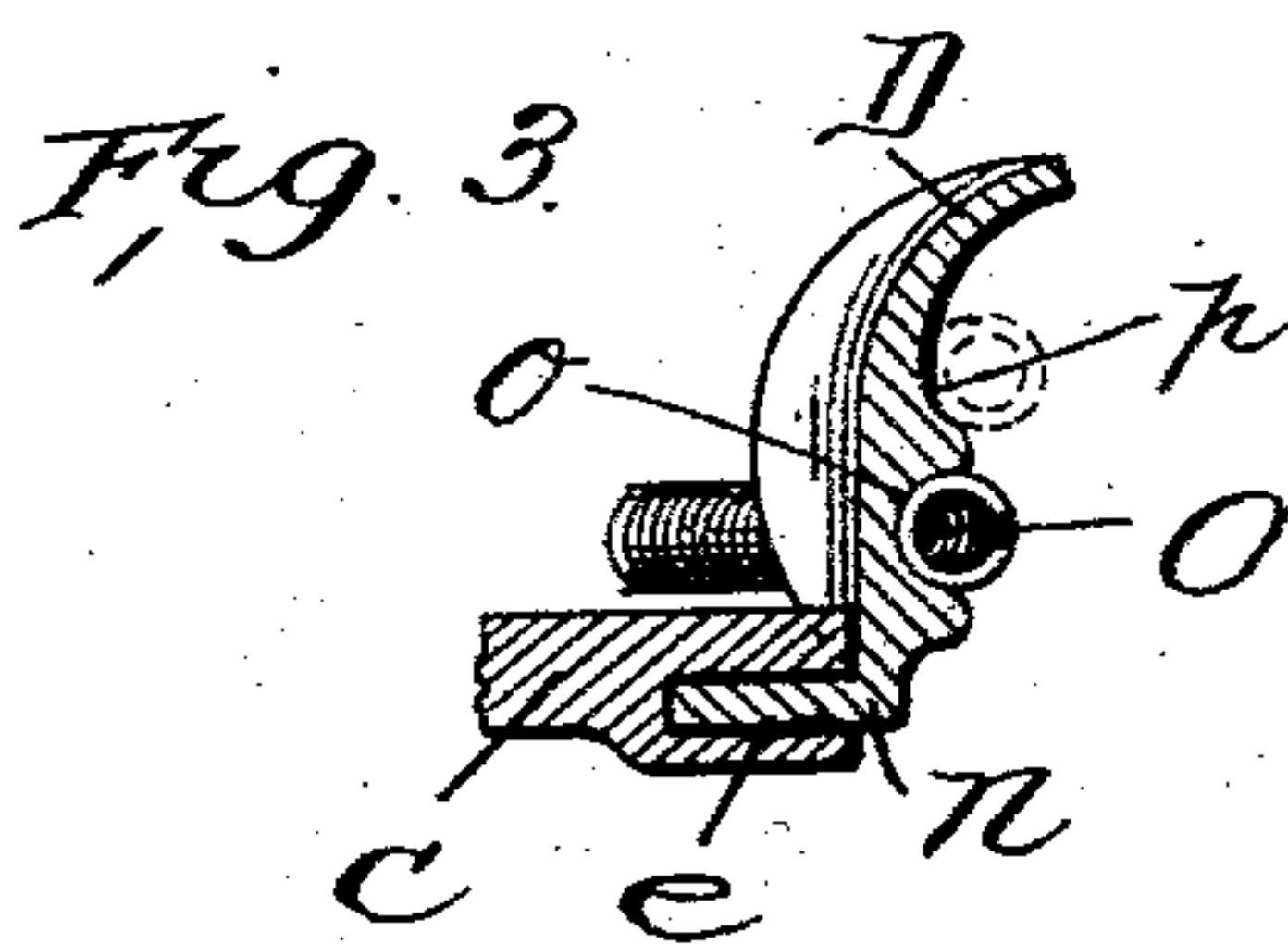
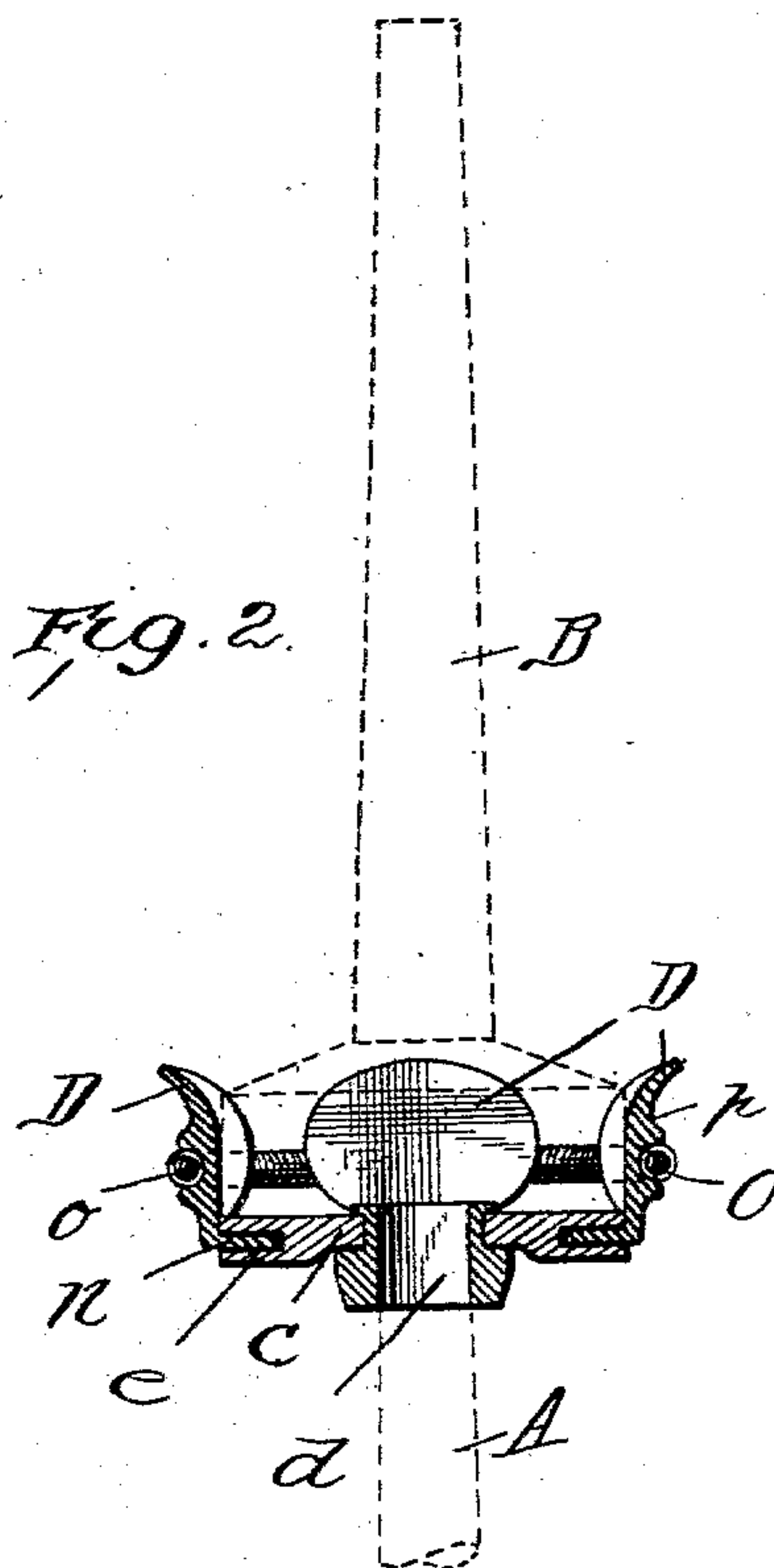
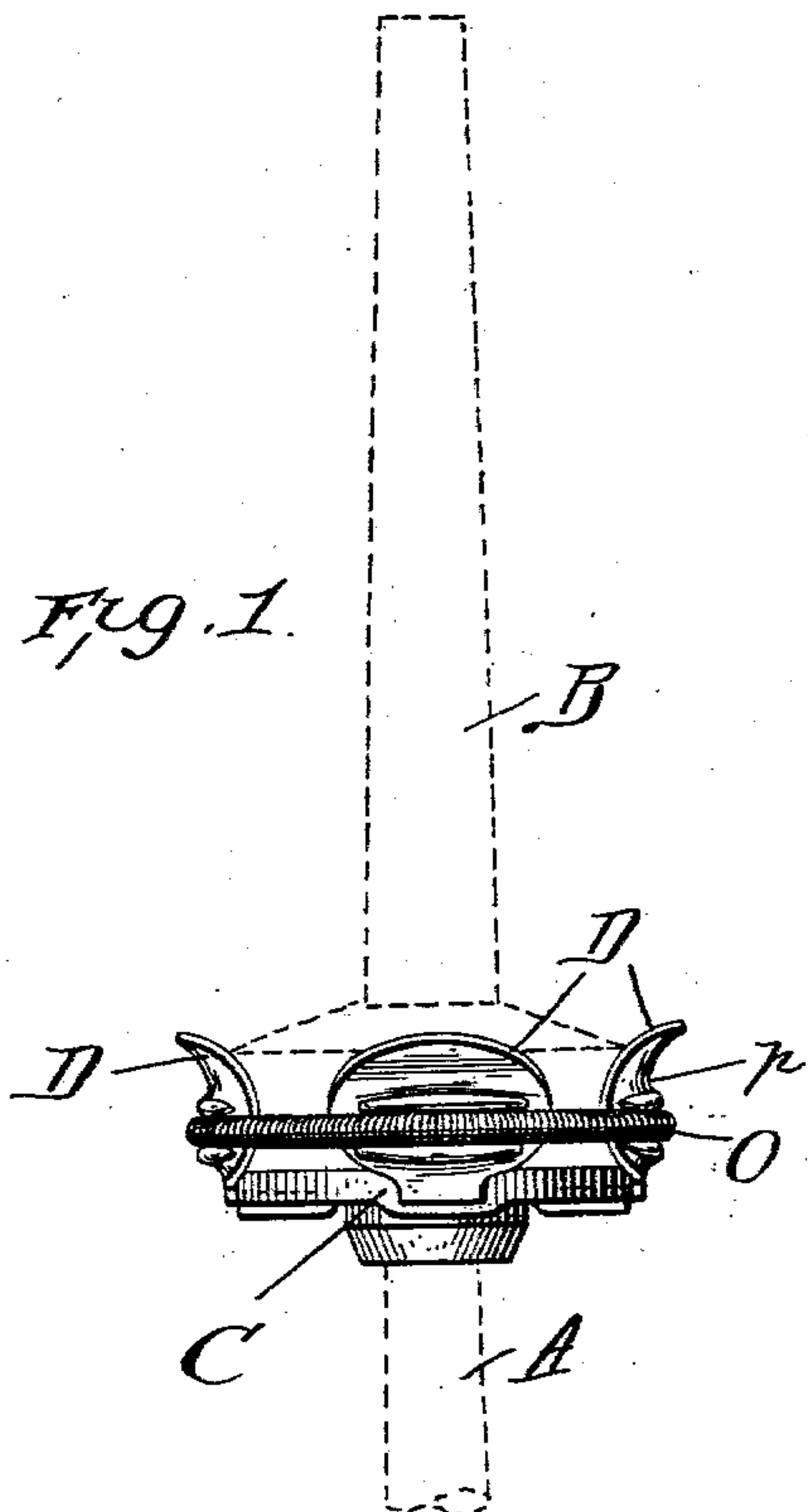
No. 745,528.

PATENTED DEC. 1, 1903.

H. W. SCATCHARD.
BOBBIN HOLDER.

APPLICATION FILED FEB. 17, 1903.

NO MODEL.



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UNITED STATES PATENT OFFICE.

HARRY W. SCATCHARD, OF BRIDGTON, MAINE.

BOBBIN-HOLDER.

SPECIFICATION forming part of Letters Patent No. 745,528, dated December 1, 1903.

Application filed February 17, 1903. Serial No. 143,815. (No model.)

To all whom it may concern:

Be it known that I, HARRY W. SCATCHARD, a citizen of the United States, residing at Bridgton, Maine, have invented certain new and useful Improvements in Bobbin-Holders, of which the following is a specification.

My invention relates to bobbin-holders, and has for its object the production of a bobbin-holder which will be more durable, which will not injure the bobbin, and which will securely hold bobbins of different sizes.

In the majority of bobbin-holders now in use the jaws are either pivoted to the body of the holder or are secured thereto in such manner as to permit a pivotal or rocking motion. Holders of this style are not only short-lived, but when the jaws are loosely mounted the removal of the bobbin is liable to displace or pull out one or more of the jaws. It is to overcome these disadvantages that the present invention is designed.

In the drawings, Figure 1 is a front elevation showing in dotted lines the holder mounted on the spindle and the bobbin in place. Fig. 2 is a longitudinal sectional view of the bobbin-holder. Fig. 3 is a sectional detail of one of the jaws.

Referring to the drawings, A indicates a spindle; B, a bobbin, (shown in dotted lines,) which may be of the form and construction commonly employed on mules and spinning-frames.

C is the bobbin-holder, of which the disk *c* forms the bottom plate. This disk is provided with the usual opening *d* for the spindle and has formed in the periphery thereof a series of radial recesses or slideways *e*.

The jaws D are segmental in shape and flare outwardly from a point near the bottom. On the lower extremity of the jaw is the inwardly-extending projection or arm *n*, which is adapted to enter the recess *e* in the disk *c* and to have a sliding motion therein. On the outside of the jaw and near the point where it begins to flare outwardly are the grooves *o* for the spring O, which encircles the jaws and presses them firmly against the bobbin.

The edges of the groove *o* are raised slightly above the surface of the jaw, so that the space between the upper edge of the groove proper and the flaring top of the jaw forms a second groove *p*, which, owing to the outward flare of the jaw, is a trifle farther removed from the center of the disk *c* than the bottom of the groove *o*, and it will be obvious that by slipping the spring from the lower into the upper groove the tension thereof will be increased and a greater pressure exerted on the jaws. These jaws may be struck in dies from a single piece of metal or may be made up in any desired manner.

From the foregoing description it will be seen that my bobbin-holder will accommodate many sizes of bobbins, that it will be very durable, and, further, that the jaws cannot easily become disarranged.

What I claim is—

1. In a bobbin-holder the combination with the base-plate, jaws secured thereto and a spring encircling said jaws of means for varying the tension of said spring, substantially as described.

2. In a bobbin-holder the combination with the base-plate, outwardly-flaring jaws secured thereto and a spring encircling said jaws of a series of annular grooves surrounding said jaws and adapted to receive said spring, said annular grooves being of different diameter, substantially as described.

3. In a bobbin-holder the combination with a jaw having an outwardly-flaring upper portion and a groove on the outer surface of said jaw having its edges raised above the level thereof, of a second groove formed by the upper edge of the first groove and the outwardly-flaring upper portion of said jaw, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

HARRY W. SCATCHARD.

Witnesses:

DAVID O. EMBICK,
DANIEL DICKENS.