

No. 816,723.

PATENTED APR. 3, 1906.

J. W. GIBSON.  
WATCH BARREL ARBOR.  
APPLICATION FILED JUNE 8, 1905.

FIG. 1

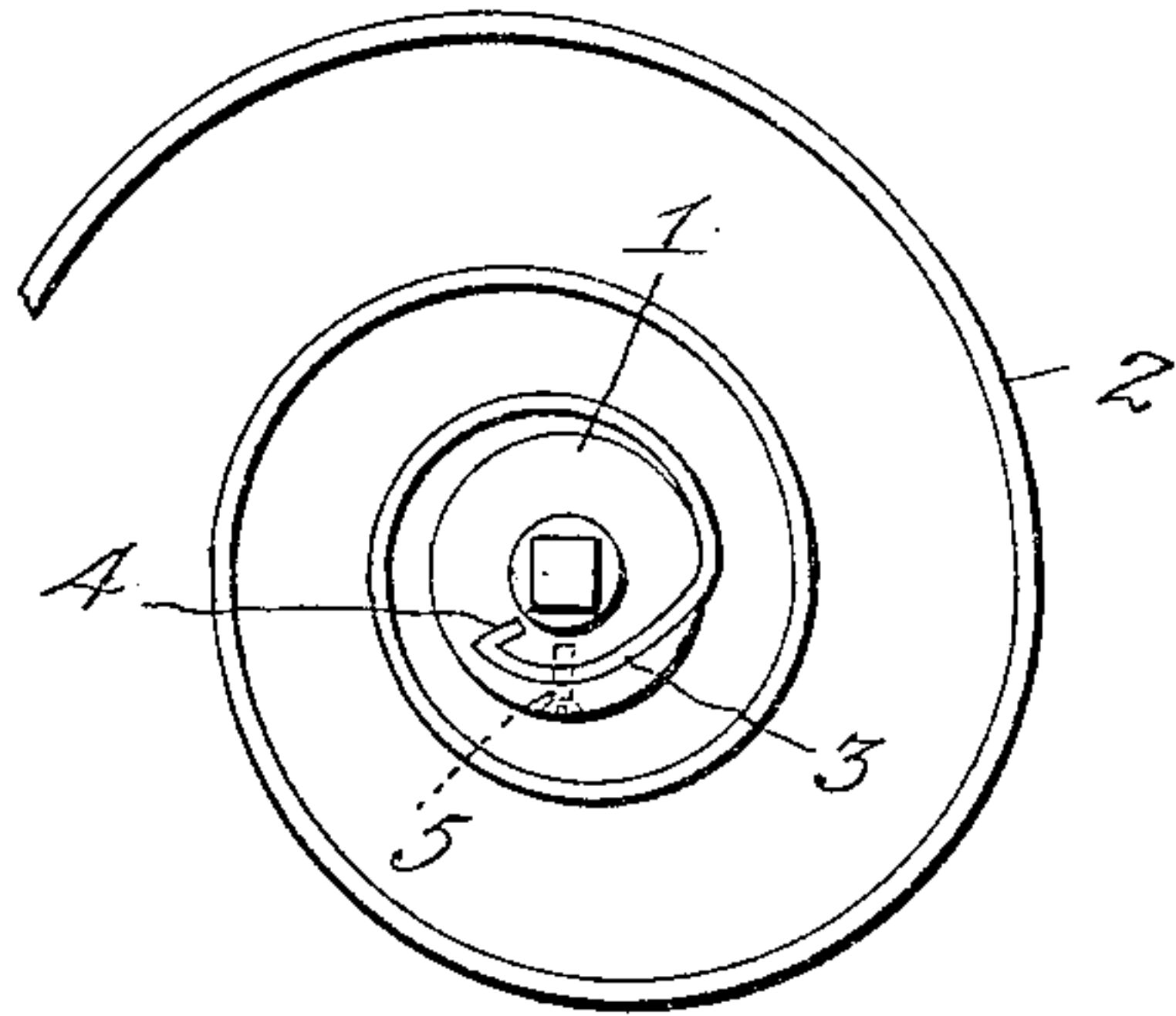


FIG. 2

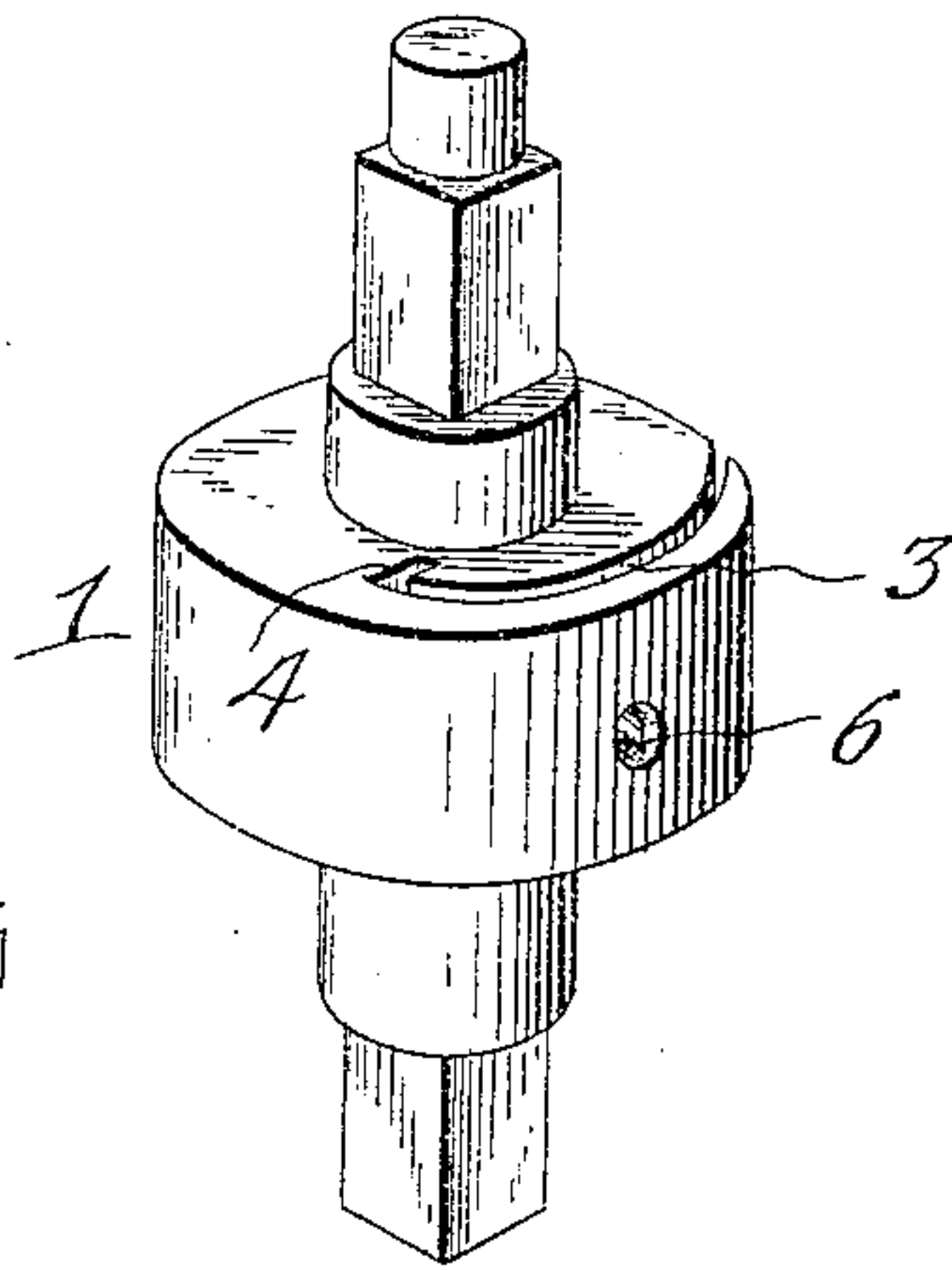
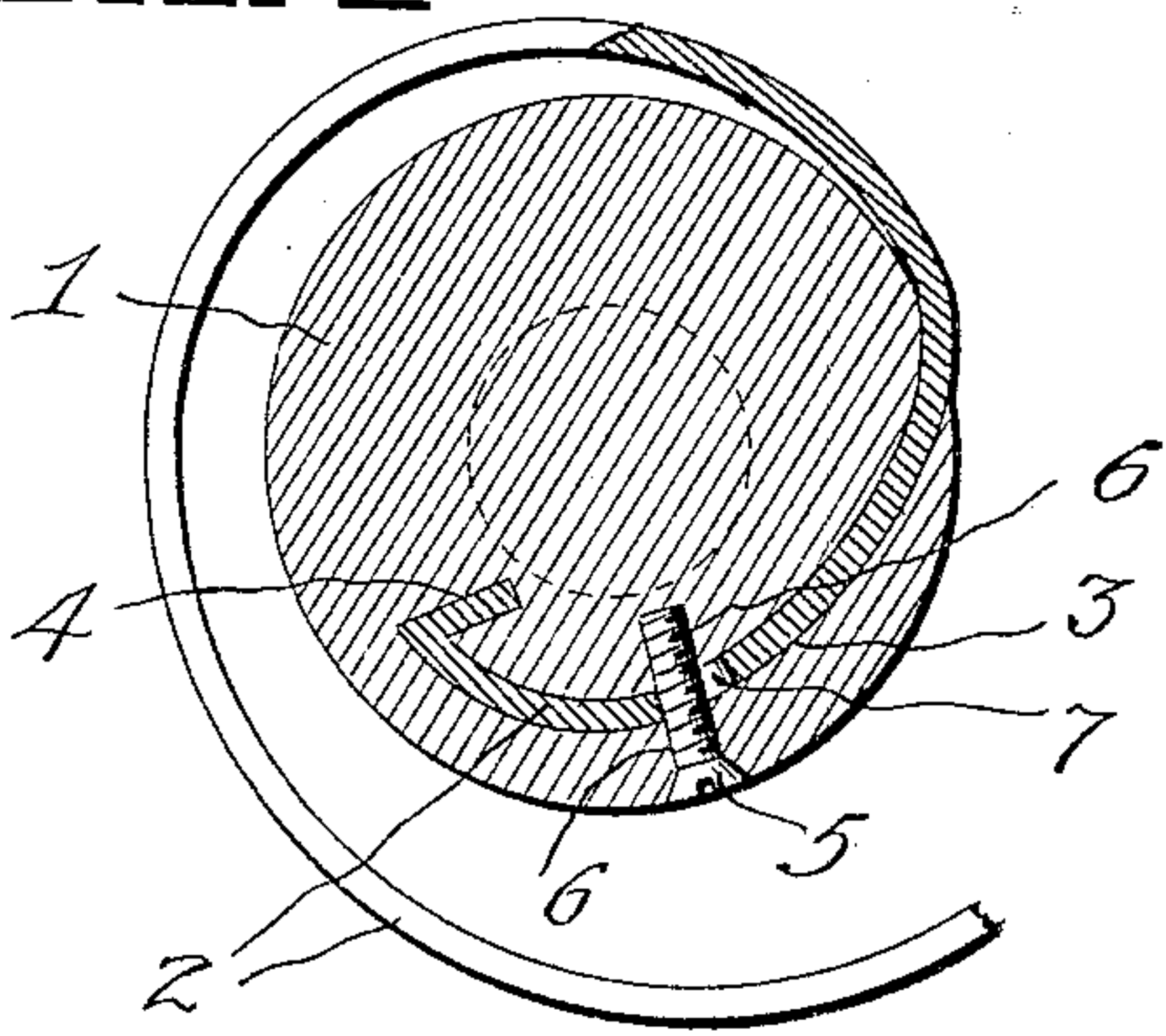


FIG. 3

Witnesses  
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# UNITED STATES PATENT OFFICE.

JOHN WILLIAMSON GIBSON, OF MYSTIC, IOWA, ASSIGNOR OF ONE-HALF  
TO WILLIAM H. LOWE, OF MYSTIC, IOWA.

## WATCH BARREL-ARBOR.

No. 816,723.

Specification of Letters Patent.

Patented April 3, 1906.

Application filed June 8, 1905. Serial No. 264,326.

*To all whom it may concern:*

Be it known that I, JOHN WILLIAMSON GIBSON, a citizen of the United States, residing at Mystic, in the county of Appanoose and State of Iowa, have invented certain new and useful Improvements in Barrel-Arbors; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in means for securing coil-springs to their shafts or arbors, and more especially to barrel-arbors of watches, clocks, and other articles that have mainsprings.

The object of the invention is to provide a simple, durable, and inexpensive fastening of this character in which the spring will be effectively prevented from slipping off of the barrel-arbor, but which may be readily applied to or removed from the same.

With the above and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a plan view of a spring secured to a barrel-arbor in accordance with my invention. Fig. 2 is a sectional view through the same, and Fig. 3 is a perspective view of the barrel-arbor.

Referring to the drawings by numeral, 1 denotes a barrel-arbor, and 2 the mainspring of a watch, clock, or the like. The spring is secured to the barrel-arbor by forming the latter with a slot or recess 3 to receive the inner end of the spring. This slot 3 is preferably curved longitudinally and disposed slightly eccentric with respect to the axis of the barrel-arbor, as clearly shown in the drawings. The inner end of said slot is formed with a short inwardly-extending portion 4, which projects at an acute angle with respect to the main portion of the slot. The spring is retained in the slot 3 by means of a screw 5 and also by bending its inner end angularly, so as to enter the angularly-projecting portion 4 of said slot. The screw 5 extends into a threaded recess 6, which intersects the slot 3, and through an aperture or opening 7, formed in the spring, as clearly

shown in Fig. 2 of the drawings. Instead of employing the screw 5 and having the recess 6 threaded a pin of any description may be driven into said recess and through the opening 7 in the spring. It will be seen that the screw or pin alone is sufficient to retain the spring in the slot 3 without bending the extreme end of the spring and having it enter the angularly-disposed portion 4 of the slot and that, if desired, the pin or screw may be dispensed with entirely, since the engagement of the bent end of the spring with the angular portion 4 of the slot is sufficient to retain the spring in the latter.

The use and advantages of the invention will be readily understood from the foregoing description taken in connection with the accompanying drawings. It will be seen that this construction renders it impossible for the spring to slip off of the barrel-arbor and that the spring may be wound very tightly upon the barrel-arbor, the head of the screw or pin 5 being preferably countersunk, as shown. Owing to the simplicity of the construction, it will be seen that the spring and barrel-arbor may be very readily connected and disconnected to permit of repairs being made.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination with a barrel-arbor or the like, formed with an eccentrically-disposed slot, having its inner end terminating in an angularly-disposed portion, a spring seated in said slot and having an angularly-bent portion adapted to engage the angularly-extending portion of said slot, and a locking-pin passed through alining apertures in said barrel and spring, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOHN WILLIAMSON GIBSON.

Witnesses:

LEONARD HEFNER,  
BERT SCOTT.