

No. 617,941.

Patented Jan. 17, 1899.

G. F. SAYRES.

ADJUSTABLE AND REVERSIBLE HANDLE BAR FOR BICYCLES.

(Application filed July 29, 1898.)

(No Model.)

FIG. 1

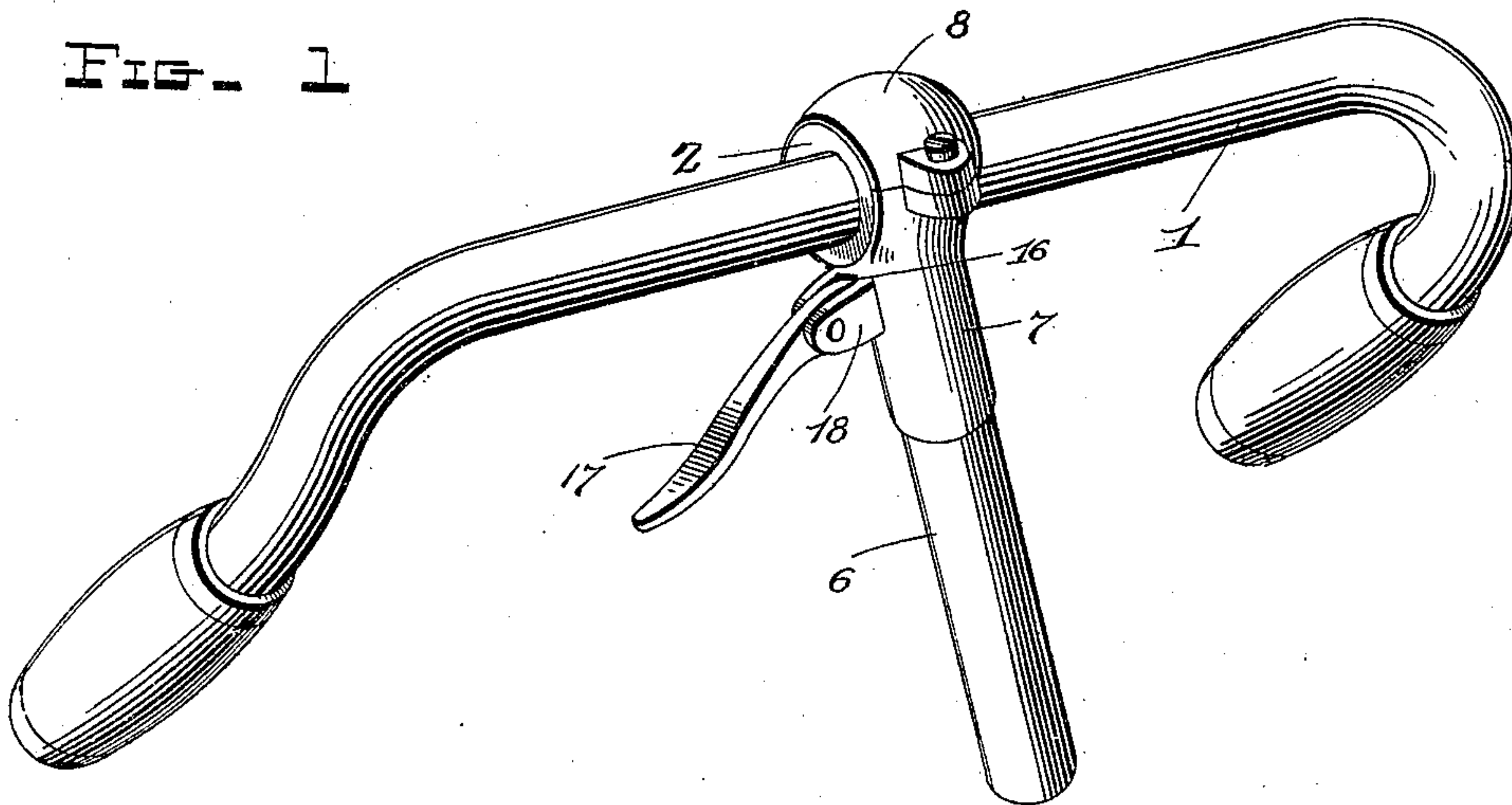


FIG. 2

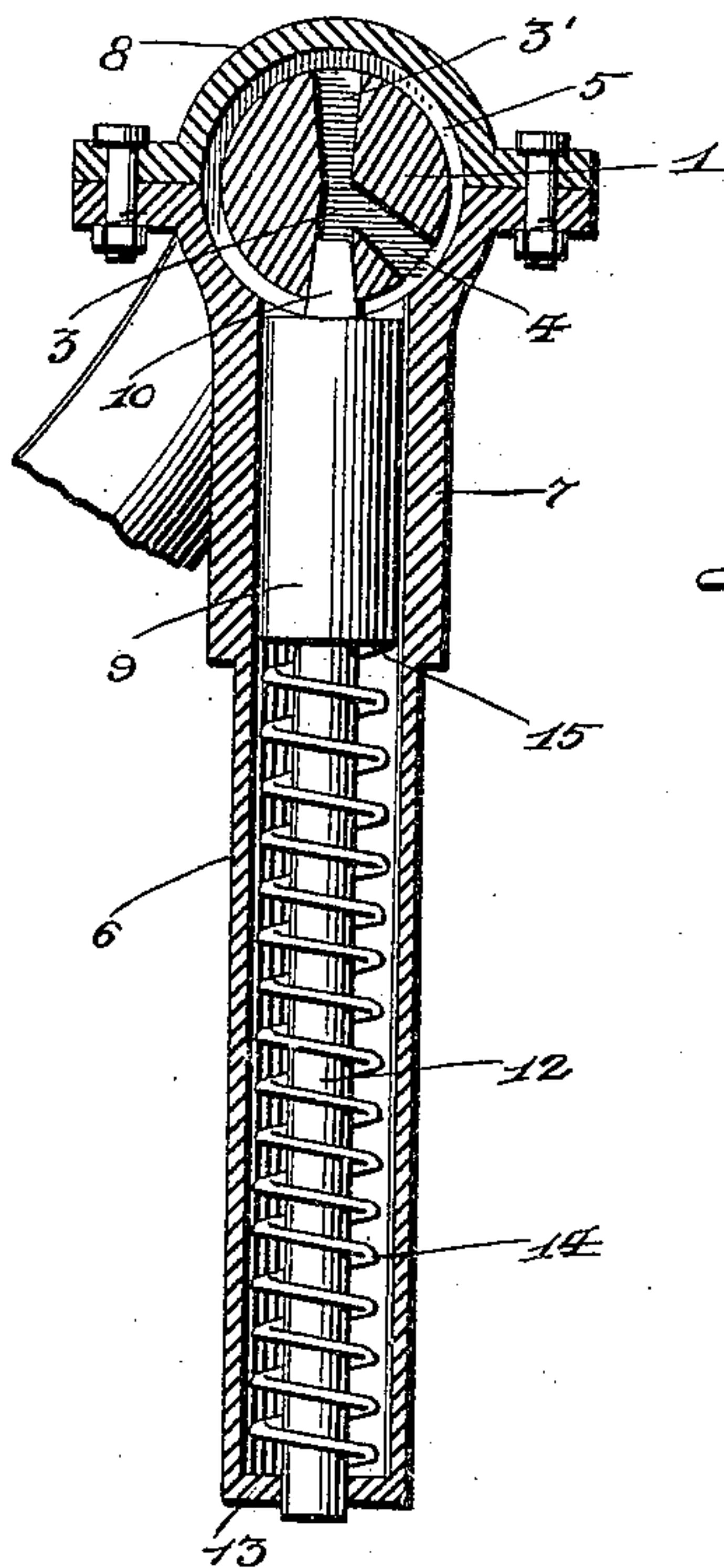
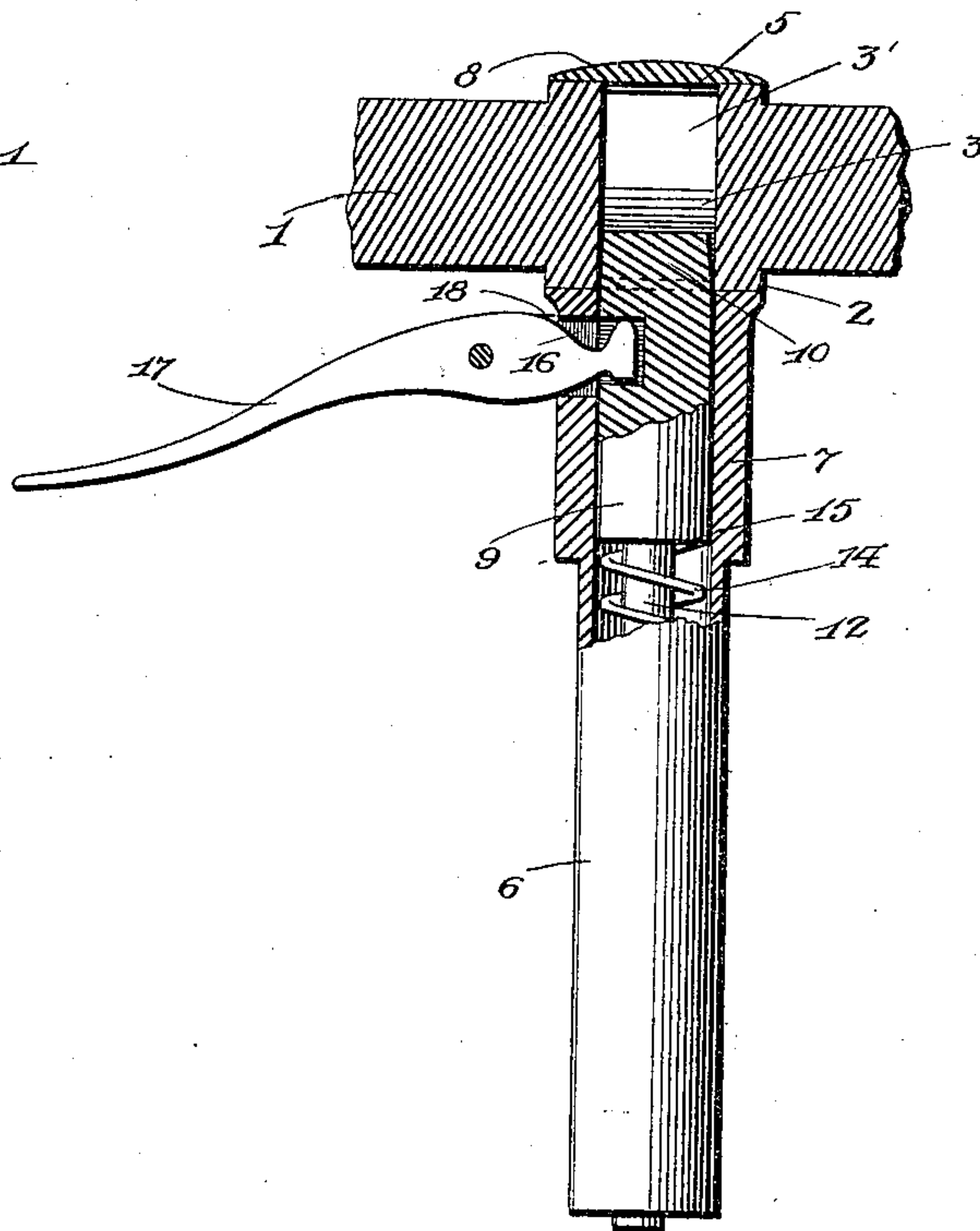


FIG. 3



Witnesses

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# UNITED STATES PATENT OFFICE.

GEORGE FREDERICK SAYRES, OF MILNESVILLE, VIRGINIA.

## ADJUSTABLE AND REVERSIBLE HANDLE-BAR FOR BICYCLES.

SPECIFICATION forming part of Letters Patent No. 617,941, dated January 17, 1899.

Application filed July 29, 1898. Serial No. 687,208. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE FREDERICK SAYRES, a citizen of the United States, residing at Milnesville, in the county of Augusta and State of Virginia, have invented certain new and useful Improvements in Adjustable and Reversible Handle-Bars for Bicycles; 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 an improved adjustable and reversible handle-bar for bicycles; and the object is to provide a simple and convenient device of this character.

To this end the invention consists in certain features of construction and combination and arrangement of parts, as will be hereinafter fully described and claimed.

The accompanying drawings show my invention in the best form now known to me; but many changes in the details might be made within the skill of a good mechanic without departing from the spirit of my invention as set forth in the claim at the end of this specification.

The same reference characters indicate the same parts of the invention.

In the drawings, Figure 1 is a perspective view of my improved handle-bar. Fig. 2 is a vertical transverse section through the center of the bar and stem. Fig. 3 is a longitudinal vertical section through the handle-bar and stem.

1 denotes the handle-bar, which is formed with a rigid central longitudinal cylindrical collar 2, provided with the radial recesses 3, 3', and 4 and an annular guide-groove 5.

6 denotes the tubular stem, and it is provided at its upper end with a fixed bearing-bracket 7, having a removable cap 8 to encompass the collar 2.

9 represents a bolt having a longitudinal movement in the stem, its upper end being provided with a longitudinal toe 10 to engage

either of the recesses in the collar, and its lower end terminates in an axial shank 12, which extends through a guide-collar 13, fixed in the lower end of said stem.

14 denotes a spiral spring encompassing the bolt 9 between its shoulder 15 and the collar 13.

16 represents a lateral orifice in the bolt to receive the shorter arm of the hand-lever 17, fulcrumed between the lateral parallel ears 18, formed integral with the bracket 7.

The bolt 9 normally engages one of the radial recesses 3 or 3' in the handle-bar collar to lock the handle-bar in a raised or lowered position, as shown in Fig. 2. By pressing the free end of the hand-lever 17 upwardly toward the handle-bar the bolt is retracted and the handle-bar may be turned on its axis to elevate, depress, or reverse the positions of the grips. When the bolt is pressed downward to withdraw it from the recess in the collar, its toe still remains in the groove 5 to prevent any longitudinal movement of the bar while being adjusted to its new position.

What I claim is—

In combination, the handle-bar having a collar fixed thereto and provided with a circumferential groove in the base of which are formed radial recesses, the tubular stem, the spring-actuated bolt alined with said collar and projecting within the groove and adapted to engage any one of the recesses to lock the handle-bar in the desired adjustment, the construction being such that when the toe is withdrawn from said recesses, it will not be withdrawn from the groove, and will thereby prevent the lateral shifting of the handle-bar, substantially as set forth.

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

GEO. FREDERICK SAYRES.

Witnesses:

S. A. CRABILL,  
C. W. ROOT.