

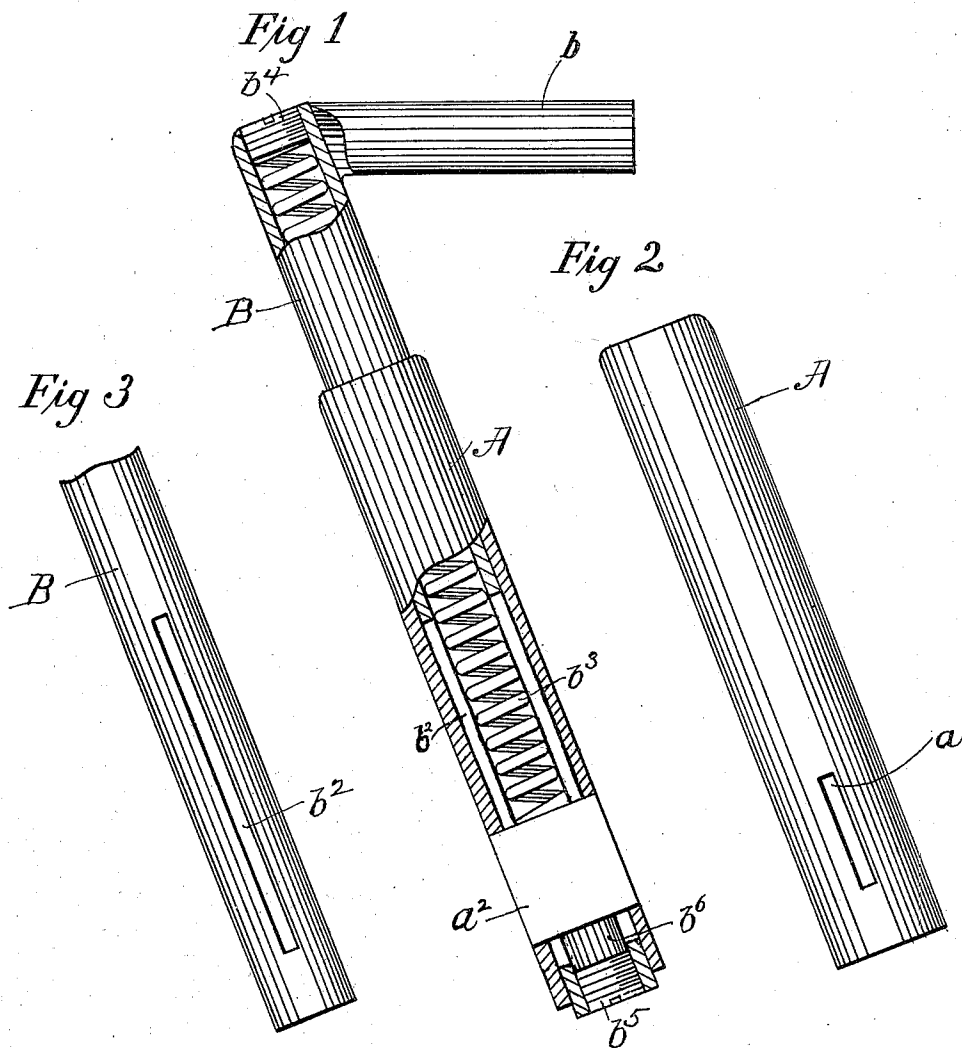
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Patented Sept. 2, 1902.

O. F. REEVES.
BICYCLE SADDLE POST.

(Application filed Mar. 12, 1901.)

(No Model.)



Witnesses:

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UNITED STATES PATENT OFFICE.

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BICYCLE SADDLE-POST.

SPECIFICATION forming part of Letters Patent No. 708,403, dated September 2, 1902.

Application filed March 12, 1901. Serial No. 50,862. (No model.)

To all whom it may concern:

Be it known that I, OSCAR F. REEVES, a citizen of the United States, residing at Saginaw, in the county of Saginaw and State of Michigan, have invented certain new and useful Improvements in Bicycle Saddle-Posts; and I do hereby 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.

The object is to present a saddle-post for bicycles which shall be thoroughly effective in relieving a rider from all jars due to the passage of the bicycle over the ground, the parts of the saddle-post being so constructed and assembled as to present a thoroughly efficient, highly durable, and exceedingly cheap form of device.

The saddle-post characterized by my invention contemplates, first, the provision of means for guiding the seat-post for telescopic movement within its supporting-sleeve and for holding the seat-post against rotary movement with relation to the sleeve; second, the provision of means for taking up all jar and impact between the seat-post and the cushioning-spring support occasioned by the return of the seat-post to its normal position after having been depressed; third, the provision of means for putting the cushioning-spring under any desired tension to accommodate the post to the weight of the rider.

Generally stated, my invention resides in a saddle-post comprising a seat-post sleeve to be secured to the machine in any preferred manner; a seat-post having telescopic connection with the sleeve and carrying the usual saddle-arm; a spring housed within the seat-post; a support carried by the seat-post sleeve, against which the lower end of the spring bears; means for putting the spring under requisite tension, and a cushion for taking up any jar or impact between the seat-post and the seat-support when the seat-post returns to its normal position after having been depressed.

In the accompanying drawings, forming a part of this specification, and in which like letters indicate corresponding parts, I have illustrated a form of embodiment of my invention, it being understood that the same

may be carried into effect in other ways without departing from the spirit of the same, and in these drawings—

Figure 1 is a view in elevation, partly in section, displaying a saddle-post embodying my invention. Fig. 2 is a similar view of the saddle-post sleeve viewed from the direction opposite that shown in Fig. 1, and Fig. 3 is a view similar to Fig. 2 of a portion of the seat-post.

Referring to the drawings, A designates a tubular sleeve, constituting the seat-post sleeve, the same to be secured to a bicycle in the usual manner. Near the lower portion of this sleeve and extending through both sides thereof in alinement are two slots a , to be engaged by a key a^2 , constituting an abutment or cushioning-spring support, this abutment to be held in place within the slots by frictional contact with the walls thereof, so as to be capable of ready removal when desired.

Working within the sleeve A is a tubular seat-post B, the same carrying at its upper end the usual saddle-arm b . The lower portion of the seat-post is provided on opposite sides in alinement with each other with two slots b^2 , these slots being designed to straddle the abutment a^2 , whereby the seat-post may have telescopic movement with relation to the seat-post sleeve, but to be held against any rotary motion with relation thereto. Housed within the seat-post is a coiled spring b^3 , the lower portion of which bears upon the abutment a^2 , as shown in Fig. 1, and the upper portion against a spring-tension-adjusting plug b^4 , threaded to engage threads in the upper portion of the seat-post, this plug by being moved in or out with relation to the seat-post placing the spring under different tensions, as will be readily apparent. By arranging the plug in the top of the seat-post it will at all times be in position for ready access, so that the tension of the spring may be changed without requiring any further labor than that probably of shifting the saddle. The lower end of the seat-post is engaged by a threaded plug b^5 , upon which rests a cushion b^6 , of any suitable yielding substance, such as rubber or leather, the cushion normally to bear against the under side of the abutment a^2 , as clearly shown in Fig.

1. The function of this cushion is to obviate any jar or impact between the seat-post and the lower walls of the slots b^2 of the seat-post, which would result without the employment of this cushion upon the return of the seat-post to its normal position after having been depressed.

It will be seen from the foregoing description that the saddle-post herein described is of exceedingly simple construction and that the parts are so constructed and assembled that such saddle-post will have the strength of the ordinary saddle-posts in which the seat-post is clamped with relation thereto. As before stated, the tension of the spring may be readily changed by turning the spring-tension-adjusting nut b^4 . Should it be desired to remove the spring b^3 if the same break, the plug b^4 may be unscrewed and the spring taken out, as will be readily apparent. Should it be desired to separate the seat-post sleeve from the seat-post, it will only be necessary to drive out the abutment a^2 .

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

1. A seat-post adapted to be secured in a seat-post socket, and comprising a tubular stem, a sleeve having telescopic connection therewith, a spring within the tubular stem, a spring-support connected to the sleeve, and exposed means for adjusting the tension of the spring, substantially as described.

2. A seat-post comprising a tubular stem, a sleeve having telescopic connection therewith and secured against other than slidable

longitudinal movement with relation thereto, a spring within the tubular stem, a spring-support, and exposed means for adjusting the tension of the spring, substantially as described.

3. A seat-post comprising a tubular stem, a sleeve having telescopic connection therewith and secured against other than slidable longitudinal movement with relation thereto, a spring within the tubular stem, within the lower end of the stem a spring-support movable with relation to the stem and fixed with relation to the sleeve, and means at the upper end of the stem for adjusting the tension of the spring without removing the stem from the sleeve, substantially as described.

4. A seat-post comprising a tubular stem and a sleeve having telescopic connection and secured against other than slidable longitudinal movement with relation to each other, a spring within the tubular stem, within the lower end of the stem a spring-support movable with relation to the stem and fixed with relation to the sleeve, a plug in the lower end of the stem, a recoil-cushion within the stem below the spring-support and above the plug, and exteriorly-disposed means at the upper end of the stem for adjusting the tension of the spring, substantially as described.

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

OSCAR F. REEVES.

Witnesses:

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