(No Model.)

G. S. WEBB.

SADDLE FOR VELOCIPEDES.

No. 597,342. Patented Jan. 11, 1898.

FIG. 1

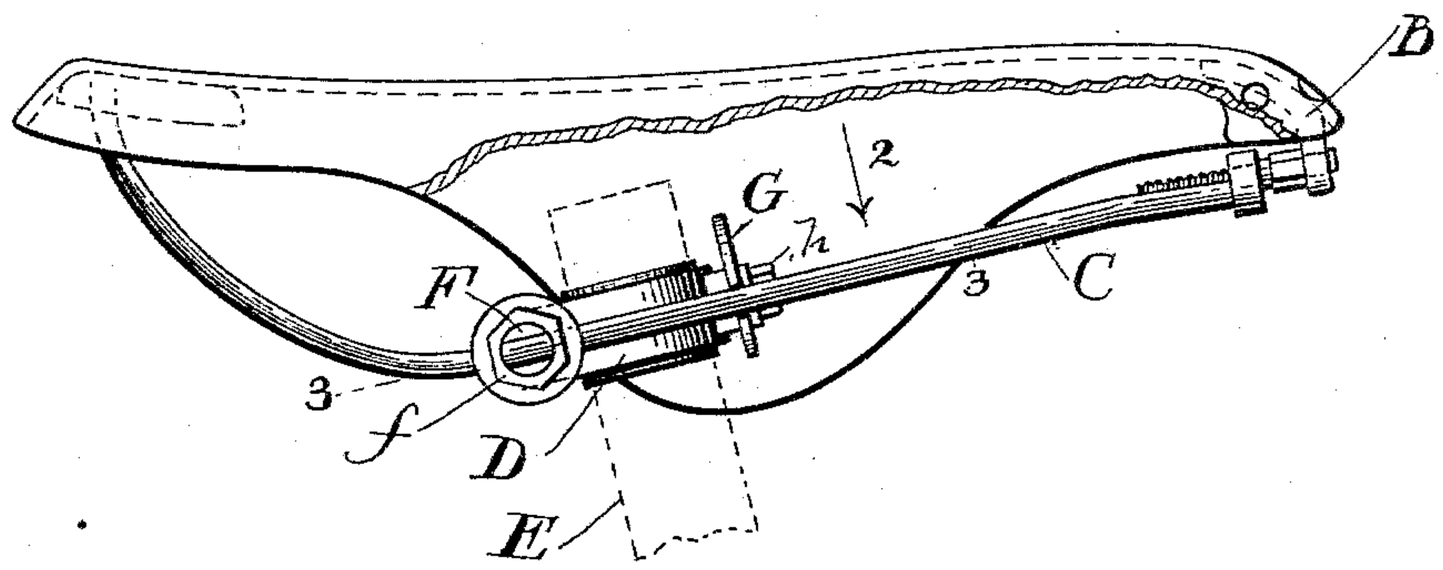


FIG. 2

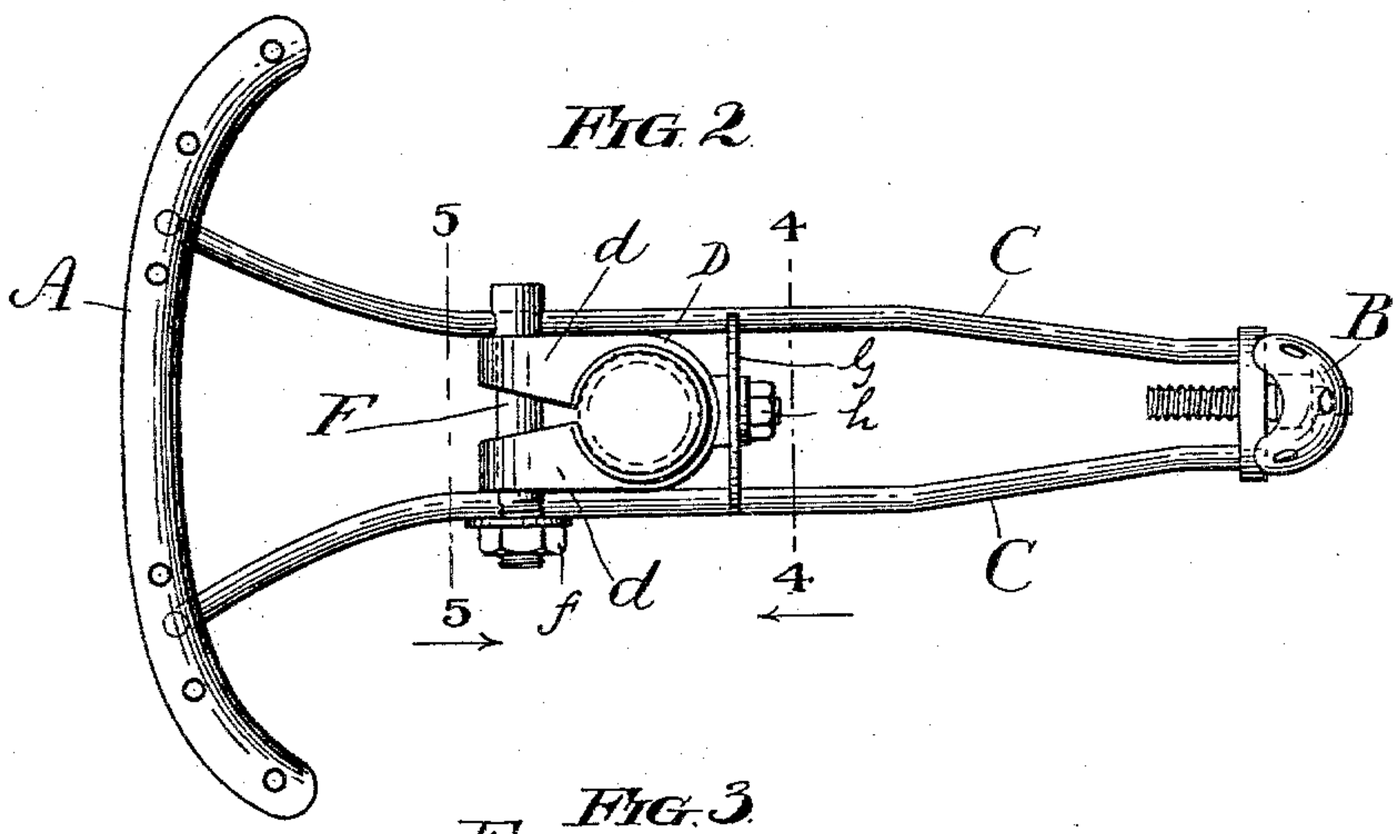


FIG. 3

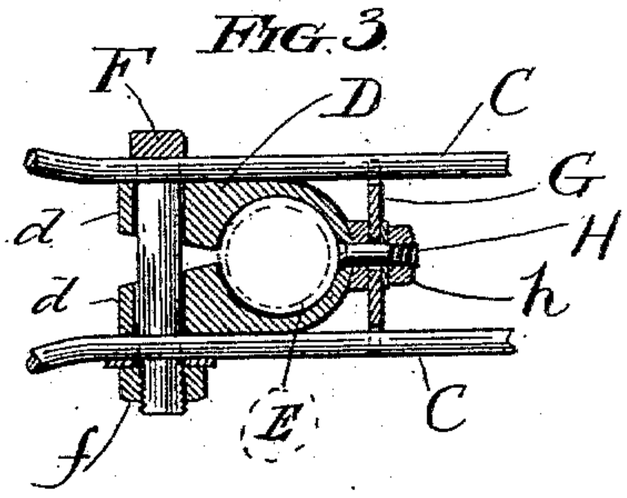


FIG. 4

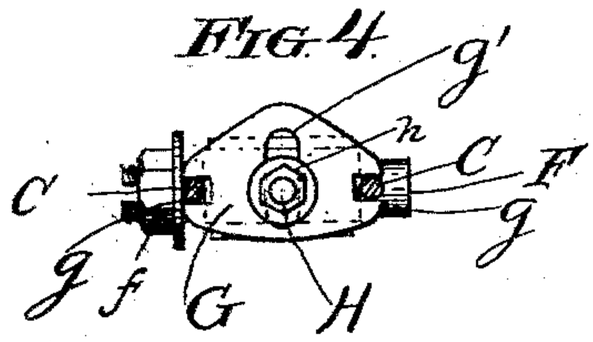
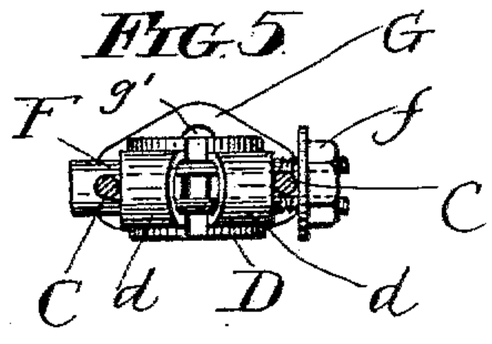


FIG. 5



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UNITED STATES PATENT OFFICE.

GEORGE S. WEBB, OF AURORA, ILLINOIS.

SADDLE FOR VELOCIPEDES.

SPECIFICATION forming part of Letters Patent No. 597,342, dated January 11, 1898.

Application filed May 5, 1896. Serial No. 590,342. (No model.)

To all whom it may concern:

Be it known that I, GEORGE S. WEBB, a citizen of the United States, residing at Aurora, in the county of Kane and State of Illinois, have invented certain new and useful Improvements in Saddles for Velocipedes, of which the following is a specification.

The present invention relates in part to the means for accomplishing the forward and backward adjustment of the saddle for the purpose of altering its position with relation to any given vertical line (hereinafter called its "horizontal" adjustment) without altering the adjustment which determines its angle with relation to the horizontal (hereinafter called its "vertical" adjustment) and for accomplishing said vertical adjustment without altering said horizontal adjustment. The object of this part of the invention is to provide improved means for accomplishing these results, which, I admit, have heretofore been accomplished by means other than those herein shown and described. This object I accomplish by using a bolt disposed horizontally and adjustable about its horizontal axis as the main support for the saddle-spring, said spring being adjustable lengthwise in a bearing formed for it in the bolt, means being provided for holding the saddle to its vertical adjustment while permitting its horizontal adjustment, and separate means being provided for holding it to its horizontal adjustment while permitting its vertical adjustment.

The invention relates in part also to the means for securing the saddle to the clip and the clip to the saddle-post, and the object of this part of the invention is to accomplish these two results by means of a single bolt. This I accomplish by using a split clip formed in one piece and having perforated ears upon opposite sides of the split and a bolt which passes through the ears of the clip and engages the two branches of the saddle-spring, which, as before stated, are disposed upon opposite sides of the clip, a nut being arranged on the bolt, so that when it is tightened the two branches of the spring are drawn against the outer sides of the ears of the clip, and said ears are in turn drawn toward each other, whereby the clip is tightened upon the post.

To these ends the invention consists in the features of novelty that are particularly pointed out in the claims hereinafter, and in order that it may be fully understood I will describe it with reference to the accompanying drawings, which are made a part of this specification, and in which—

Figure 1 is a side elevation of a saddle and its clip embodying the invention, a part of the near side of the leather covering of the saddle being broken away and the saddle-post being indicated by dotted lines. Fig. 2 is a plan viewed in the direction of the arrow 2, Fig. 1, of the same parts minus the leather covering. Fig. 3 is a horizontal section on the line 3 3, Fig. 1. Figs. 4 and 5 are vertical sections on the lines 4 4 and 5 5, respectively, Fig. 2, looking in the directions of the arrows.

A represents the cantle, B the pommel, and C the spring extending from one to the other and by preference divided into two branches, which are located a sufficient distance apart to receive between them a clip D, by which the saddle is secured to the saddle-post, (indicated by dotted lines at E.) The spring C extends lengthwise of the saddle and is disposed transversely with relation to the axis of the eye in the clip, those portions of the two divisions of the spring which are adapted to have contact with the devices for holding it being perfectly straight and disposed so that viewed from above they are parallel with each other, and viewed from the side they both lie in the same place. The clip is provided on its rear side with perforated ears *d*, and between these ears it is split from top to bottom, so as to make it capable of being expanded and contracted. Through these perforated ears passes a bolt F, which is threaded at one of its ends and is provided with a longitudinal slot extending from its threaded end nearly to its other end. This slotted bolt straddles the two branches of the spring, and upon it is turned a nut *f*, which when tightened draws the two branches of the spring against the outer sides of the ears of the clip and in turn draws said ears together, so as to contract the clip and cause it to clamp the saddle-post. In this way one bolt is made to perform the two functions of tightening the clip upon the post and of holding the saddle to its horizontal adjustment. When the nut

is loosened, the spring of the saddle may be slid endwise through its bearing upon the bolt, and in this way the horizontal adjustment of the saddle is accomplished, and when the nut is tightened this endwise movement of the spring is prevented, thus holding the saddle to its horizontal adjustment while permitting its vertical adjustment. The vertical adjustment is accomplished by rotating the bolt about its horizontal axis, and the leverage afforded by the length of the saddle is sufficient to permit this to be done without loosening the nut. In order to hold the saddle to its vertical adjustment, a plate G, having notches *g* for receiving the two branches of the spring, is secured to the front side of the clip, so as to be vertically adjustable. In order to accomplish this vertical adjustment of the bolt, it is provided with a vertical slot *g'*, through which passes a stud H, that proceeds from the clip, the outer end of the stud being threaded for the reception of a nut *h*, which bears against the plate through the medium of a washer. When the vertical adjustment of the saddle is to be altered, the nut *h* is loosened, after which the adjustment may be accomplished in the manner already described, and when accomplished the saddle may be again securely locked by again tightening the nut *h*. The notches *g* of the plate are of such a character that they prevent the lateral movement of the two branches of the spring relatively to the plate while permitting their free endwise movement, and thus it will be seen that with the arrangement above described either of the two possible adjustments of the saddle may be accomplished without disturbing the other.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. The combination with a saddle having a spring disposed lengthwise, of a bolt disposed horizontally and having a bearing in which said spring fits and is capable of being moved lengthwise for accomplishing the horizontal adjustment of the saddle, a bearing in which said bolt fits and is capable of being turned about its horizontal axis, means for holding the saddle to its horizontal adjustment while permitting said bolt to be turned for accomplishing its vertical adjustment and means for holding the saddle to its vertical adjustment while permitting its horizontal adjustment, substantially as set forth.

2. The combination with a saddle having a spring disposed lengthwise, of a bolt disposed horizontally and having a bearing in which said spring fits and is capable of being moved lengthwise for accomplishing the horizontal adjustment of the saddle, a bearing in which said bolt fits and is capable of being turned about its horizontal axis, means for securing the spring in its seat in the bolt and preventing its endwise movement therein while permitting said bolt to be turned about its horizontal axis for accomplishing the vertical adjustment of the saddle, and means for holding the saddle to its vertical adjustment while permitting its horizontal adjustment when released by the means for preventing its endwise movement, substantially as set forth.

3. The combination with a saddle having a spring disposed lengthwise, of a bolt disposed horizontally and having a bearing in which said spring fits and is capable of being moved lengthwise for accomplishing the horizontal adjustment of the saddle, a bearing in which said bolt fits and is capable of being turned about its horizontal axis, means for securing the spring in its seat in the bolt and preventing its endwise movement therein while permitting said bolt to be turned about its horizontal axis for accomplishing the vertical adjustment of the saddle, and a vertically-adjustable plate engaging the spring and controlling its vertical movement while leaving it free to move endwise, substantially as set forth.

4. The combination with a saddle having a spring disposed lengthwise, of a bolt disposed horizontally and having a bearing in which the spring fits and is capable of being moved lengthwise for accomplishing the horizontal adjustment of the saddle, a bearing in which said bolt fits and is capable of being turned about its horizontal axis, a nut turned onto the bolt and engaging the spring for preventing its endwise movement while permitting the bolt to turn about its horizontal axis for accomplishing the vertical adjustment of the saddle, and adjustable means for holding the saddle to its vertical adjustment while permitting its horizontal adjustment when released by the nut, substantially as set forth.

5. The combination with a saddle having a spring divided into two branches disposed lengthwise, and a part located between said branches, of a bolt disposed horizontally and having a bearing in which said spring fits and is capable of being moved lengthwise for accomplishing the horizontal adjustment of the saddle, a bearing in the part aforesaid in which said bolt fits and is capable of being turned about its horizontal axis for accomplishing the vertical adjustment of the saddle, a nut turned onto the bolt and engaging the spring for preventing its endwise movement while permitting the bolt to be turned about its horizontal axis for accomplishing the vertical adjustment of the saddle, and a vertically-adjustable plate having notches for receiving the two branches of the spring and controlling its vertical movement while leaving it free to move endwise, substantially as set forth.

GEORGE S. WEBB.

Witnesses:
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