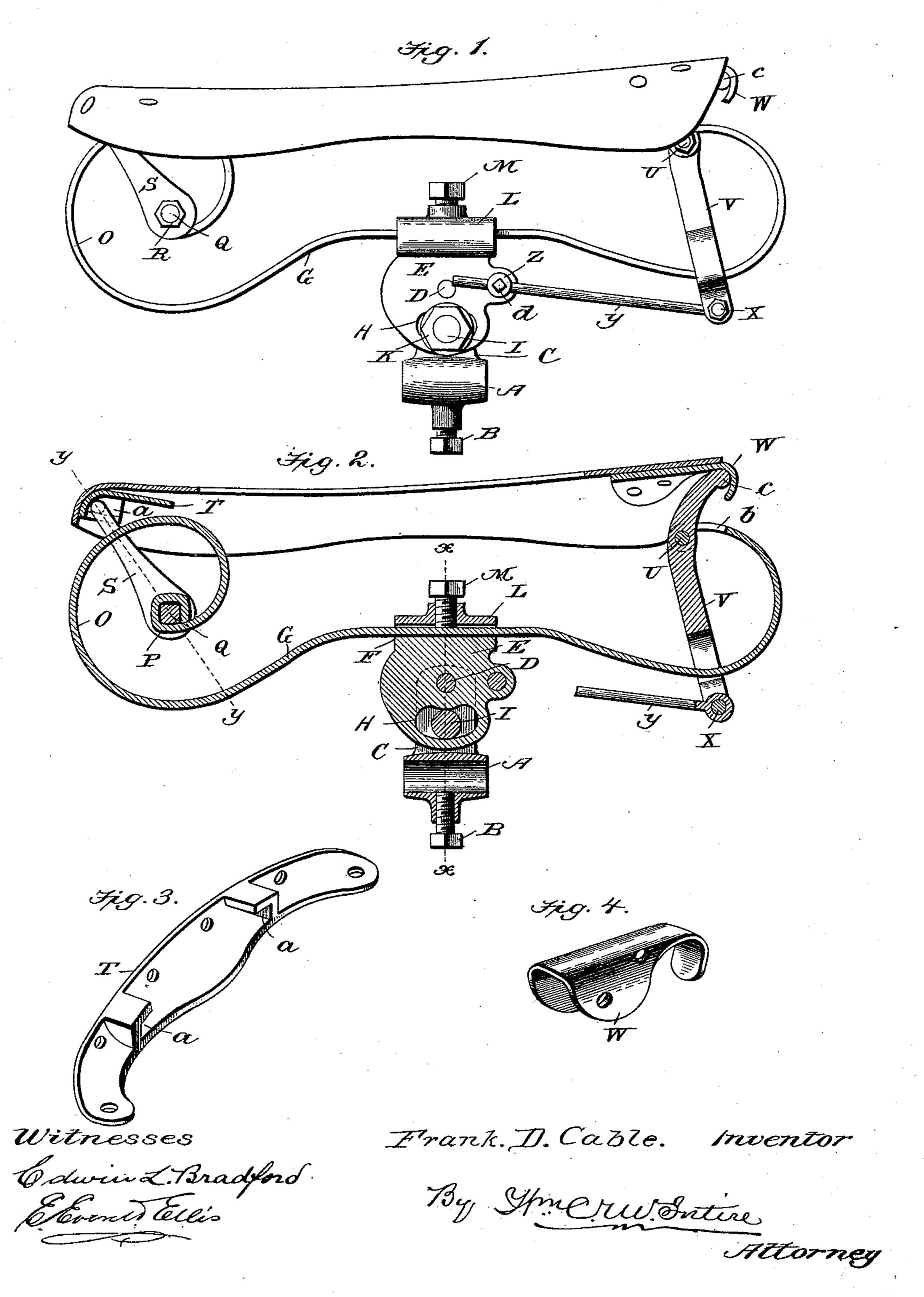
F. D. CABLE. BICYCLE SADDLE.

No. 495,391.

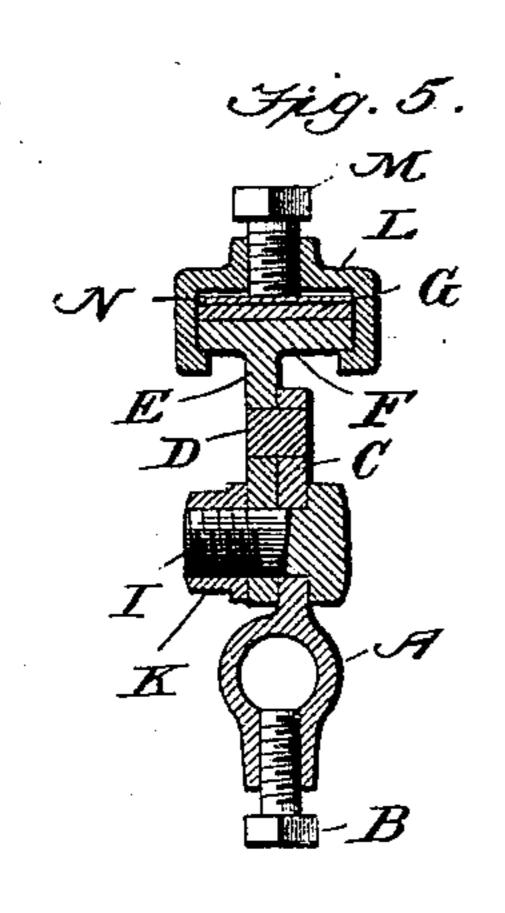
Patented Apr. 11, 1893.

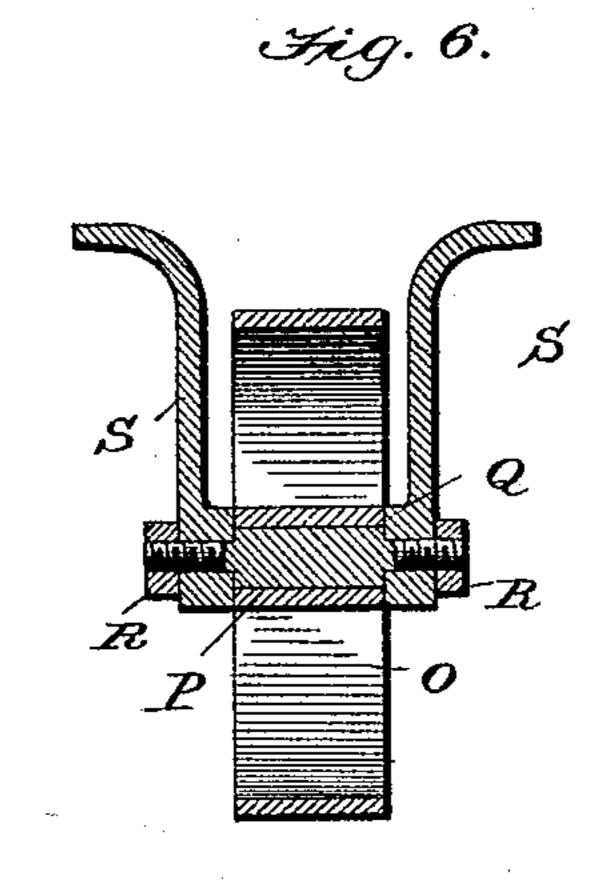


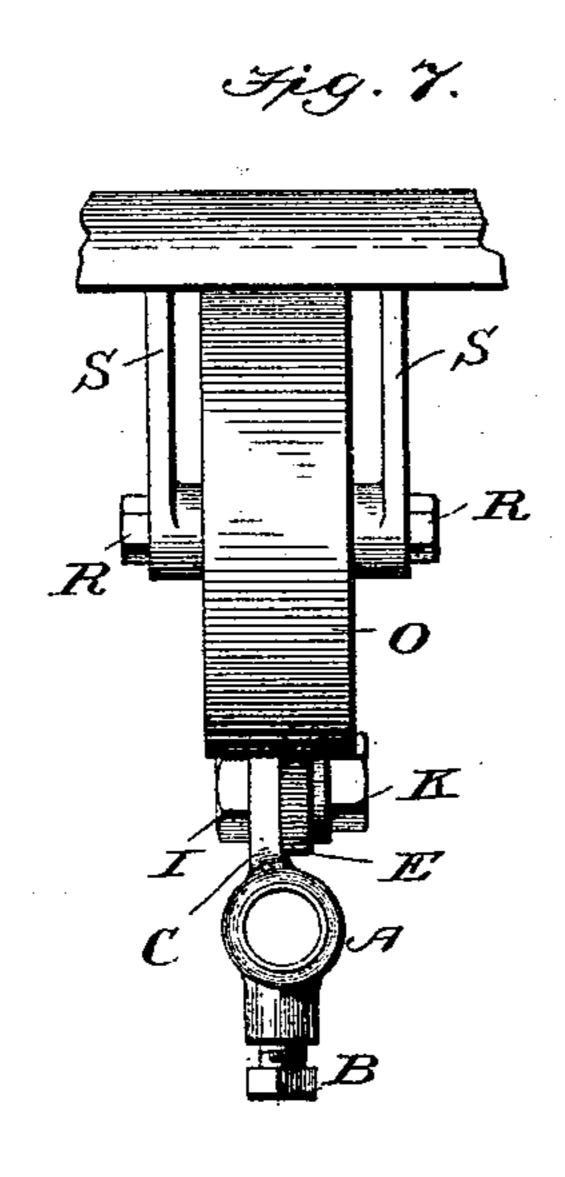
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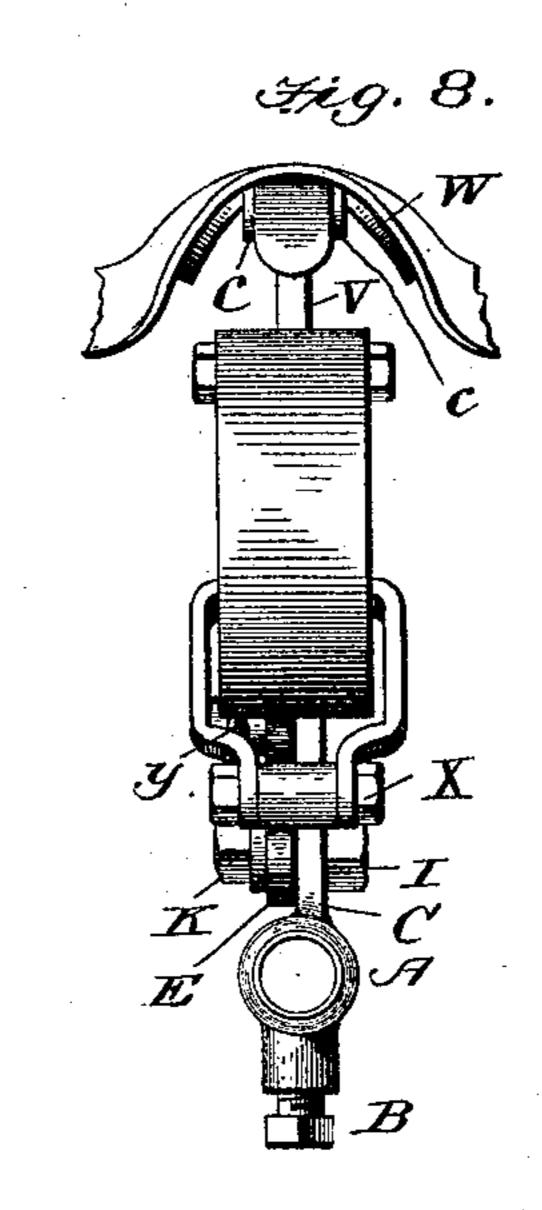
No. 495,391.

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Frank. D. Cable.

Witnesses

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Inventor

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Attorney

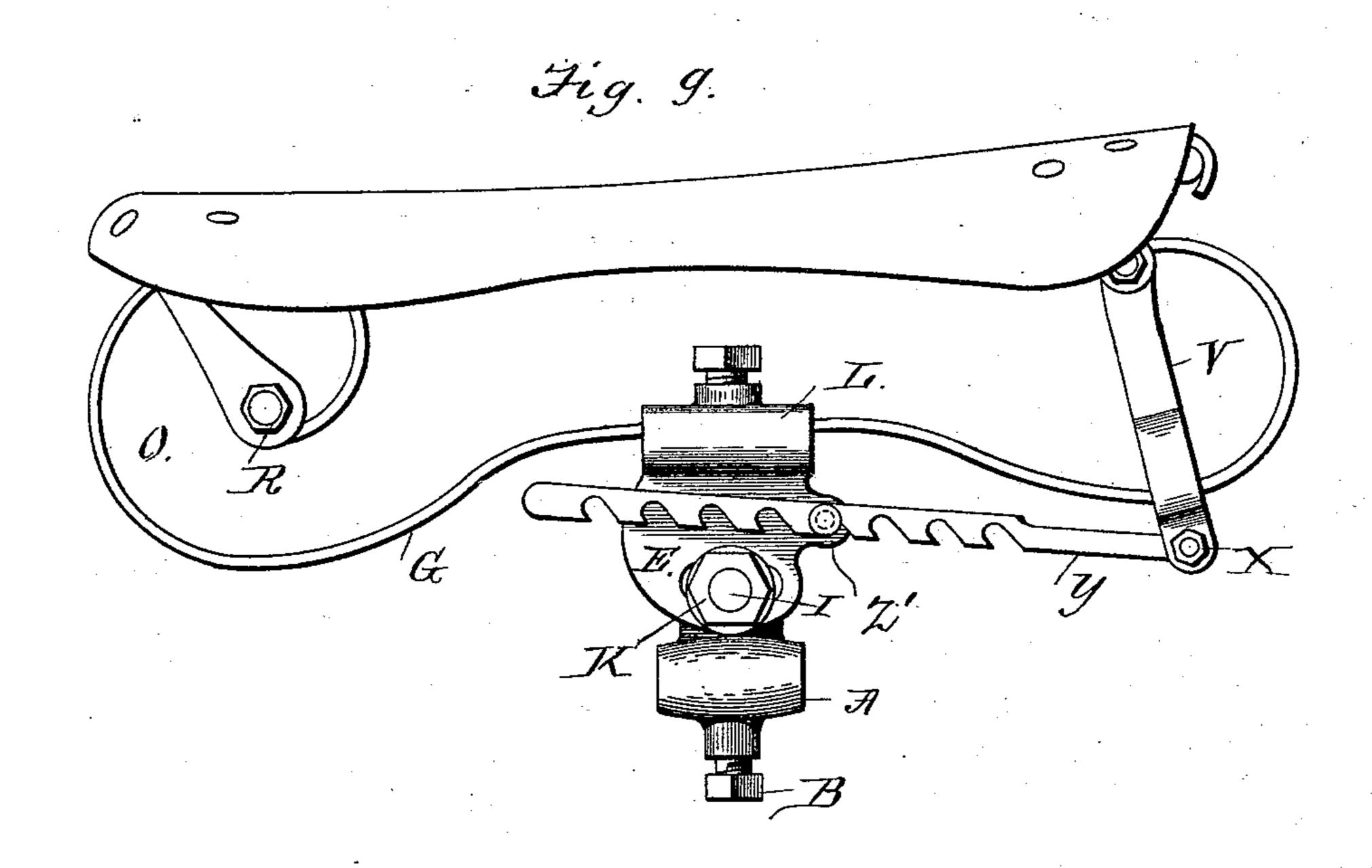
(No Model.)

3 Sheets—Sheet 3.

F. D. CABLE.
BICYCLE SADDLE.

No. 495,391.

Patented Apr. 11, 1893.



Witnesses Edwin L'Bradford Elevents Cells By Smerustre

Attorney

United States Patent Office.

FRANK D. CABLE, OF TOLEDO, OHIO, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO THE YOST MANUFACTURING COMPANY, OF SAME PLACE.

BICYCLE-SADDLE.

SPECIFICATION forming part of Letters Patent No. 495,391, dated April 11, 1893.

Application filed August 9, 1892. Serial No. 442,567. (No model.)

To all whom it may concern.

Be it known that I, FRANK D. CABLE, a citizen of the United States, residing at Toledo, in the county of Lucas and State of Ohio, have 5 invented certain new and useful Improvements in Bicycle-Saddles; 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 to it appertains to make and use the same.

This invention relates to certain new and useful improvements in saddles for bicycles.

It has for its objects to provide means by which the saddle proper can be readily se-15 cured in place or removed, and also by which the spring tension and position of the saddle can be expeditiously adjusted.

With these ends in view my invention consists in the details of construction hereinafter 20 described and claimed and fully shown in the accompanying drawings forming part of this

specification.

In the accompanying drawings, Figure 1 is a side elevation of a saddle and its connecting 25 devices constructed in accordance with my invention. Fig. 2 is a central longitudinal section of the same. Fig. 3 is a perspective view of the securing plate connected on the under side of the cantle of the saddle. Fig. 4 is a 30 similar view of the securing plate connected to the under side of the pommel of the saddle. Fig. 5 is a vertical section taken at the line x, x, of Fig. 2. Fig. 6 is a section taken at line y, y, of Fig. 2. Fig. 7 is a rear view 35 of saddle and rear end of spring with the saddle partly broken away to show connections. Fig. 8 is a front view of spring and saddle. Fig. 9 is a side elevation of a saddle showing a modification of the means em-40 ployed for adjusting the saddle.

Similar letters denote like parts in the sev-

eral figures of the drawings.

A represents a cylindrical slide adapted to move upon the arm of the saddle post of a 45 bicycle and to be secured in any desired position by a clamping screw bolt B. The slide A is formed with an upwardly projecting flat plate C pivoted at D to a plate E formed with a head F adapted to bear against the under 50 side of the saddle spring G, and formed with an arc-shaped slot H, through which is passed I

a bolt I, through the medium of which and a nut K, the extension C and plate E are adjustably secured together in an obvious man-

ner.

L is a clamping plate adapted to lie upon the upper surface of the saddle spring, and which is formed with vertical sides inwardly flanged to grasp the under side of the head F of the plate E as clearly shown at Fig. 5. 60 And when in proper relation with said head F a tight connection is made with the spring G, by means of a clamping bolt M which bears against the upper surface of the spring directly, or upon a thin interposed metal plate 65 N, seen at Fig. 5.

From the construction and arrangement of parts thus far described, it will be seen that the saddle spring may be clamped at adjustable distances from either end, and that it 70 may be inclined in either direction longitudinally by reason of the pivotal and adjustable connection between the extension C and

plate F.

The spring G is a flat spring, straight for a 75 suitable distance to permit of the necessary limit of adjustment forward and backward, and having its rearend bent or coiled as seen at O, to a C-shape, the extreme end formed into a square socket as shown at P, Figs. 2 80 and 6, to receive a square bolt Q, each end of which is turned cylindrical and provided with a screw thread to receive securing nuts R.

S, S, are two radial arms fitting over the square portion of the bolt Q, extending each 85 side of the spring G, and secured in place by the nuts R above referred to. The radial arms S have their upper free ends turned outwardly and about horizontal and enter the pockets a, a, in the cantle plate T fully 90 illustrated at Fig. 3, which plate T is secured to the saddle by rivets in the well known manner. The forward end of the spring G is also bent or curved and the extreme end fashioned into a cylinder to receive a round bolt 95 U, provided with a suitable head and nut, by means of which it is secured in place. The end of the front portion of the spring is bifurcated or formed with a longitudinal slot b, to receive a vibratory lever arm V, which 100 is secured pivotally to the spring by the bolt U passing through a hole in said lever arm.

The upper end of the lever arm V is extended laterally on each side forming a trunnion c adapted to enter and interlock with the front curved end of a pommel plate W (see Fig. 4), secured to the under side of the saddle proper by suitable rivets. This lever arm V is bifurcated at its lower end as clearly shown at Fig. 8, to straddle and move freely over the spring G and the lower ends are connected by a bolt and nut X, which also passes through the hellow sleave and of a red V by

through the hollow sleeve end of a rod Y, by means of which the bifurcated and pivoted lever arm V is vibrated. The rod Y passes through a post Z secured by nut or in any other manner to the plate E, and is held in any given position therein by a binding screw

d, or any other suitable clamping device. When the ends of the arms S, S, have been placed within the pockets a, in the cantle 20 plate T, and the upper trunnion end c of the lever arm V has been located within the hooked or curved end of the pommel plate W, the rod Y is passed through the post Z, and the lever-arm V vibrated toward the 25 front of the saddle until a secure interlock is established between the pommel plate and the trunnion end of lever arm, and the parts are then secured in position by turning down the binding screw d in the post Z, and it will 30 be seen that the tension of the spring G may be increased by the rearward movement of the lower bifurcated end of the lever arm V

With the construction illustrated and described it will be seen that the saddle proper may be removed speedily from a bicycle by simply releasing the binding screw d within the post Z on the plate E, and vibrating the lever arm V sufficiently to disengage its upper trunnioned end from the hook end of the pommel plate. I have shown the plate adapted to receive the post Z either side of the center, so that it may be secured in place either end forward.

or decreased by a reverse movement.

In lieu of the adjusting device shown in Fig. 1 I may employ the modification of the same shown in Fig. 9. This modification consists in providing the bar or rod Y with a series of notches or recesses which adapt it to interlock with a pin Z' on the plate E. The general contour or design of the said plate may be varied at will as such design or con-

tour forms no part of my invention, so long as provision is made for sustaining in position the post Z. Variations may also be made 55 in many other details without departing from the spirit of my invention.

What I claim as new, and desire to secure

by Letters Patent, is—

1. In a saddle for bicycles, the combination 60 with cantle plate T provided with pockets a, a, and the pommel plate W constructed as described, the spring G, radial arms S, S, secured fixedly to the rear end of the spring, lever arm V pivotally connected to the forward portion of the spring and securing rod Y, adapted to be secured adjustably to the plate E, substantially as and for the purpose set forth.

2. In a saddle for bicycles the combination 70 with the spring G, and lever arm V, pivotally connected therewith, of the tension adjusting rod Y, plate E, post Z, and clamping screw d, substantially as and for the purpose set forth.

3. In combination with the sliding sleeve 75 A, provided with clamping bolt B and extension C, the plate E provided with arc-shaped slot in the bottom end, and pivoted to the extension C; the clamping plate L and clamping bolt M, whereby the saddle may be adjusted longitudinally and vertically substantially as and for the purpose set forth.

4. The plate E interposed between the saddle post and the saddle spring, and formed with a head F to bear against the under side 85 of the spring G, in combination with the clamping plate L, constructed as described, and the clamping screw M, whereby the parts may be readily separable for adjustment or

removal as hereinbefore set forth.

5. In a bicycle saddle the radial arms S, S, secured over the squared projections of the bolt Q and locked in position by the nuts R, and having their free ends seated within the pockets a, a, of the cantle plate T, in combination with the saddle and the saddle spring G, substantially as and for the purposes set forth.

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

FRANK D. CABLE.

Witnesses:

JOHNSON THURSTON, W. H. ROOSE.