(No Model.)

I. G. CHATFIELD.

BICYCLE SADDLE.

No. 512,862. Patented Jan. 16, 1894.

Fig. 1

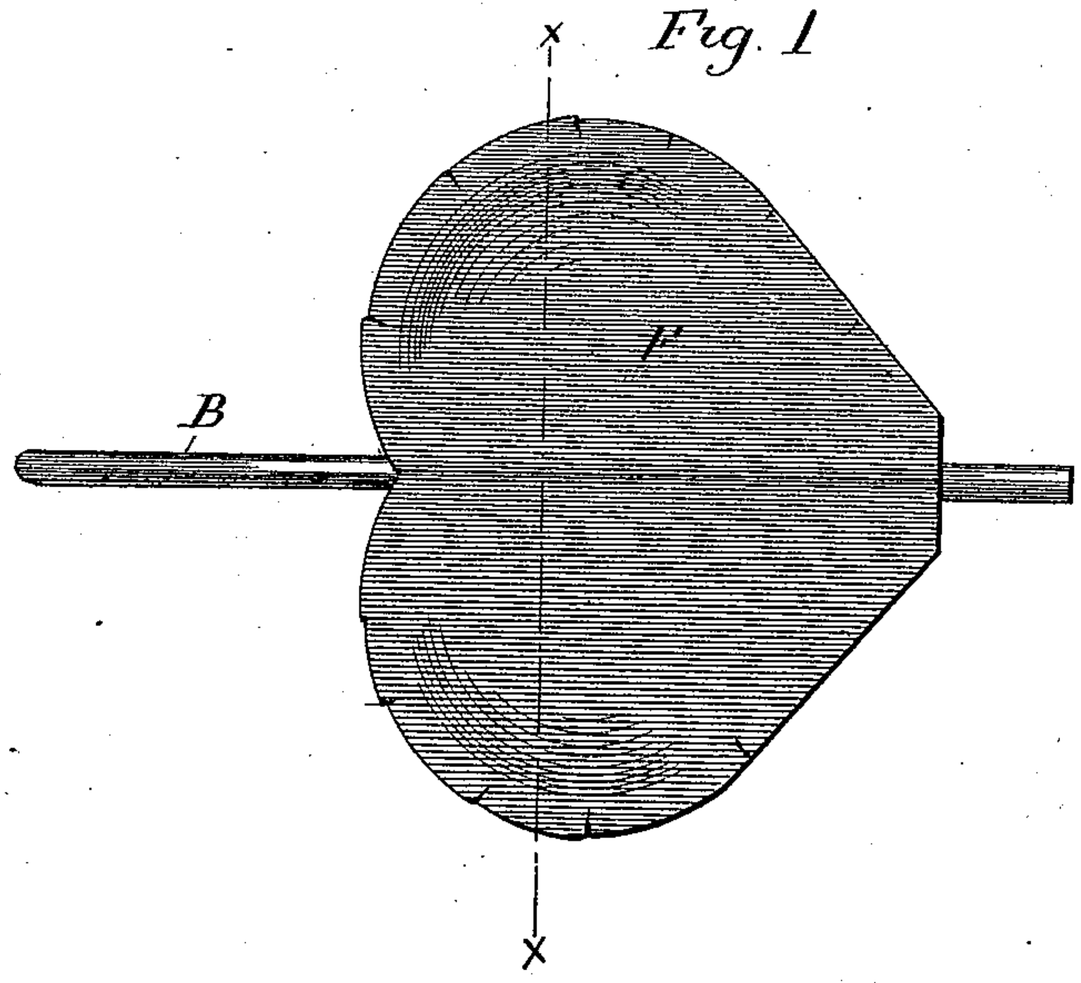


Fig. 2

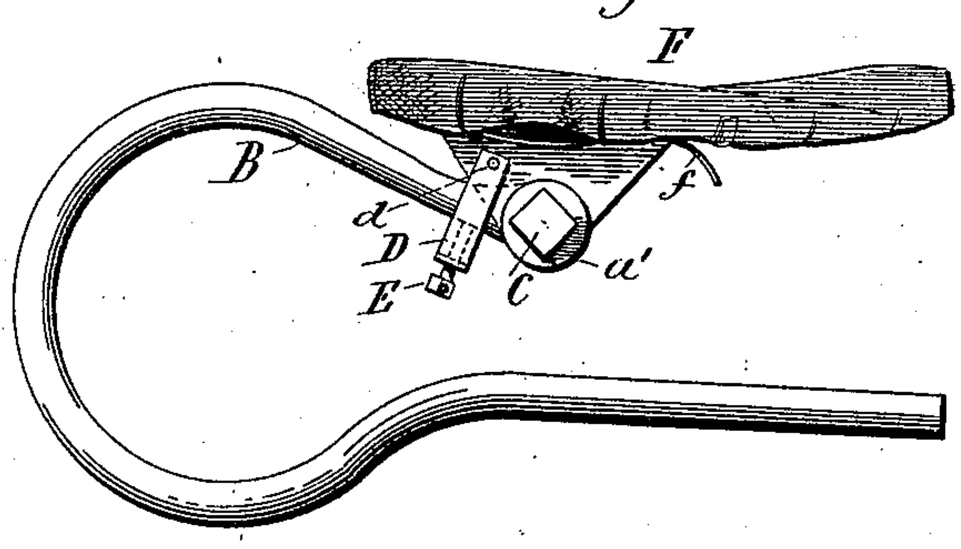


Fig. 3

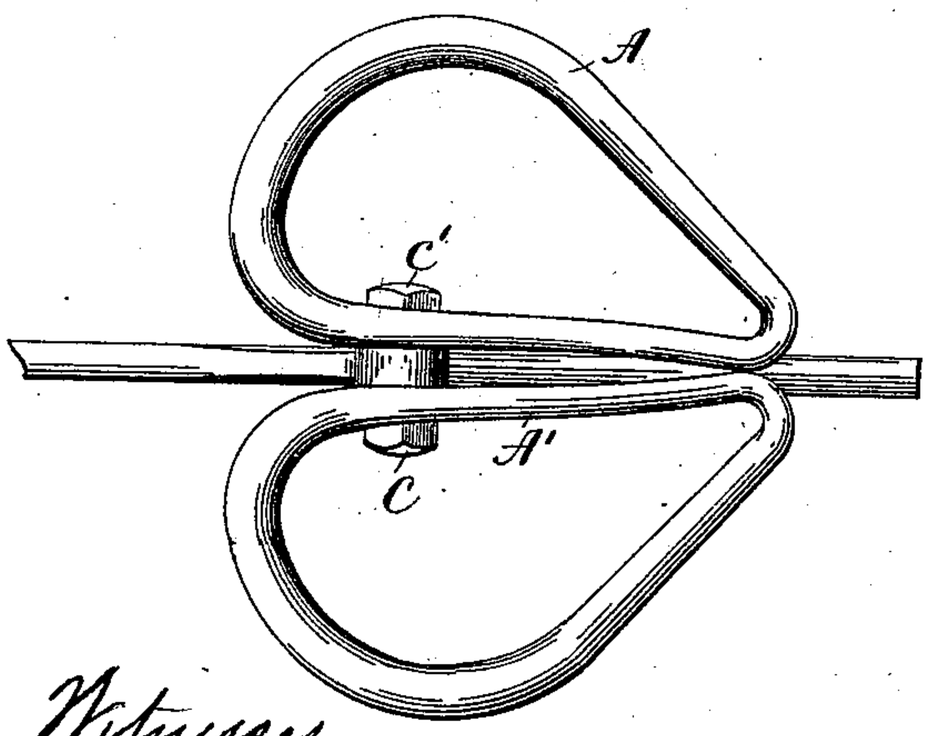


Fig. 5

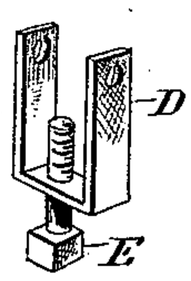
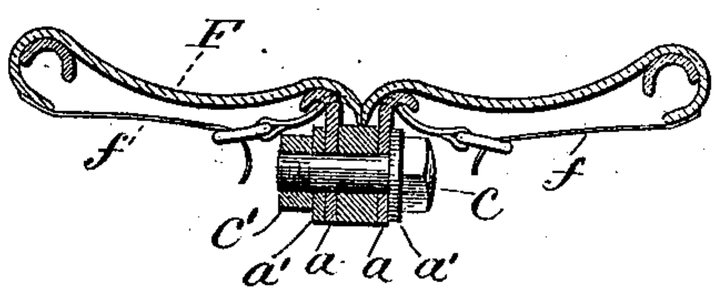


Fig. 4



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IRVING G. CHATFIELD, OF WATERBURY, CONNECTICUT.

BICYCLE-SADDLE.

SPECIFICATION forming part of Letters Patent No. 512,862, dated January 16, 1894.

Application filed September 22, 1893. Serial No. 486,157. (No model.)

To all whom it may concern:

Be it known that I, IRVING G. CHATFIELD, of Waterbury, in the county of New Haven and State of Connecticut, have invented a new Improvement in Bicycle-Saddles; and I do hereby declare the following, when taken in connection with accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a plan view of one form which a saddle constructed in accordance with my invention may assume; Fig. 2, a view thereof in side elevation; Fig. 3, a view of the saddle with the cover removed; Fig. 4, a view of the saddle in transverse section on the line *x—x* of Fig. 1; Fig. 5, a detached perspective view of the adjusting stirrup.

My invention relates to an improvement in bicycle-saddles, the object being to produce a simple, and convenient saddle, particularly adapted to afford the rider a natural and comfortable seat, and to avoid the discomfort and injurious effect of supporting the weight upon, and thereby compressing, the pubic or inter-pelvic region.

With these ends in view, my invention consists in a bicycle saddle comprising two corresponding frame-pieces, tapering forward, oval in general outline, each having a large oval opening, and having their outer edges higher than their inner edges, which are substantially parallel, and a flexible covering applied over the said frame-pieces which support the weight of the rider from their outer, rather than from their inner edges.

My invention further consists in certain details of construction as will be hereinafter described and pointed out in the claims.

As herein shown, the two frame-pieces A, A′ of my improved saddle, are made of heavy sheet-metal, bowed in transverse section to give it rigidity, and having its convex face uppermost. Each of these sections is oval in general outline, and has a large oval opening corresponding to it in general form. The inner edges of the frame-pieces extend in substantially parallel lines, while their outer edges, which are considerably higher than their inner edges, taper forward, where the said frame-pieces are much narrower than they are at their rear ends, which are rounded. The two sections taken together may be compared in general outline to the outline of the hip-bone. The inner edge of each of these frame-pieces is constructed, as herein shown, with a depending perforated ear *a*, the said ears of the two pieces being applied respectively to the opposite faces of the perforated forward end of the saddle-post B, and receive a screw-bolt C, provided with a nut C′, whereby the said pieces are firmly clamped to the saddle-post. Washers *a′ a′* are interposed between the nut and the head of the screw, and bear directly against the outer faces of the said ears, as shown in Fig. 4 of the drawings. An adjusting device, comprising a stirrup D, carrying a set-screw E, determines the inclination of the saddle with reference to the saddle-post, the said stirrup being pivotally attached by means of a pin *d*, to the depending ears of the frame-pieces at a point to the rear of the screw-bolt C, as well shown by Fig. 2 of the drawings. The leverage imposed upon the saddle will tend to tip it forward and downward on the screw-bolt C, so as to bring the inner end of the screw E, against the under face of the saddle-post B, which is embraced by the stirrup. It will be clear that by turning the said screw in or out, the inclination of the saddle may be regulated. The frame-pieces A and A′ are covered by a flexible covering F, preferably of leather, and secured in place in any suitable manner, as by stops *f f*, as seen in Fig. 4 of the drawings. It is apparent that this covering may be made of other material than leather, and that it may be secured to the frame-pieces in a variety of ways.

By giving the two pieces which form the frame-work of the saddle, the general outline of the hip-bone, I secure a natural and comfortable seat, while by elevating the outer edges of the frame-pieces above their inner edges, the weight of the rider is supported above the middle of the saddle in such a manner that the pubic or inter-pelvic region is not compressed, thus avoiding injury and discomfort.

It is designed that when the seat is applied it shall be sufficiently slack to allow depressions conforming to the contours of the body to be formed within the frame-pieces, and on opposite sides of their parallel inner edges.

It is apparent that in carrying out my invention I may depart from the particular details of construction herein shown and described, and I do not therefore limit myself to the particular form herein described, but hold myself at liberty to make such alterations as fairly fall within the spirit and scope of my invention.

I am aware that bicycle-saddles constructed in two corresponding longitudinal skeleton-like members tapering from their rear ends forward and made independent of each other, are not new, and that it is not new to provide the members of such a saddle with a cover.

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

1. A bicycle-saddle having its frame-work composed of two frame-pieces substantially oval in general outline, and wider at their outer rear than at their forward ends, each having an oval opening conforming to its outline, and having their outer edges higher than their inner edges, which are substantially parallel, substantially as described.

2. A bicycle saddle having its frame-work composed of two frame-pieces, oval in general outline, and tapering at their forward ends, having their outer edges higher than their inner edges, which are substantially parallel, and constructed with ears depending from their inner edges to receive a screw-bolt, by means of which they are clamped to a saddle-post, substantially as described.

3. A bicycle-saddle composed of two independent frame-pieces, having their outer edges higher than their inner edges, and together having the general form of the hip-bone, a saddle-post to which the said frame-pieces are adapted to be secured, and an adjusting device connecting the saddle-post and frame-pieces at a point in rear of the attachment of the latter to the former, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

IRVING G. CHATFIELD.

Witnesses:

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WILLIAM J. RIGNEY.