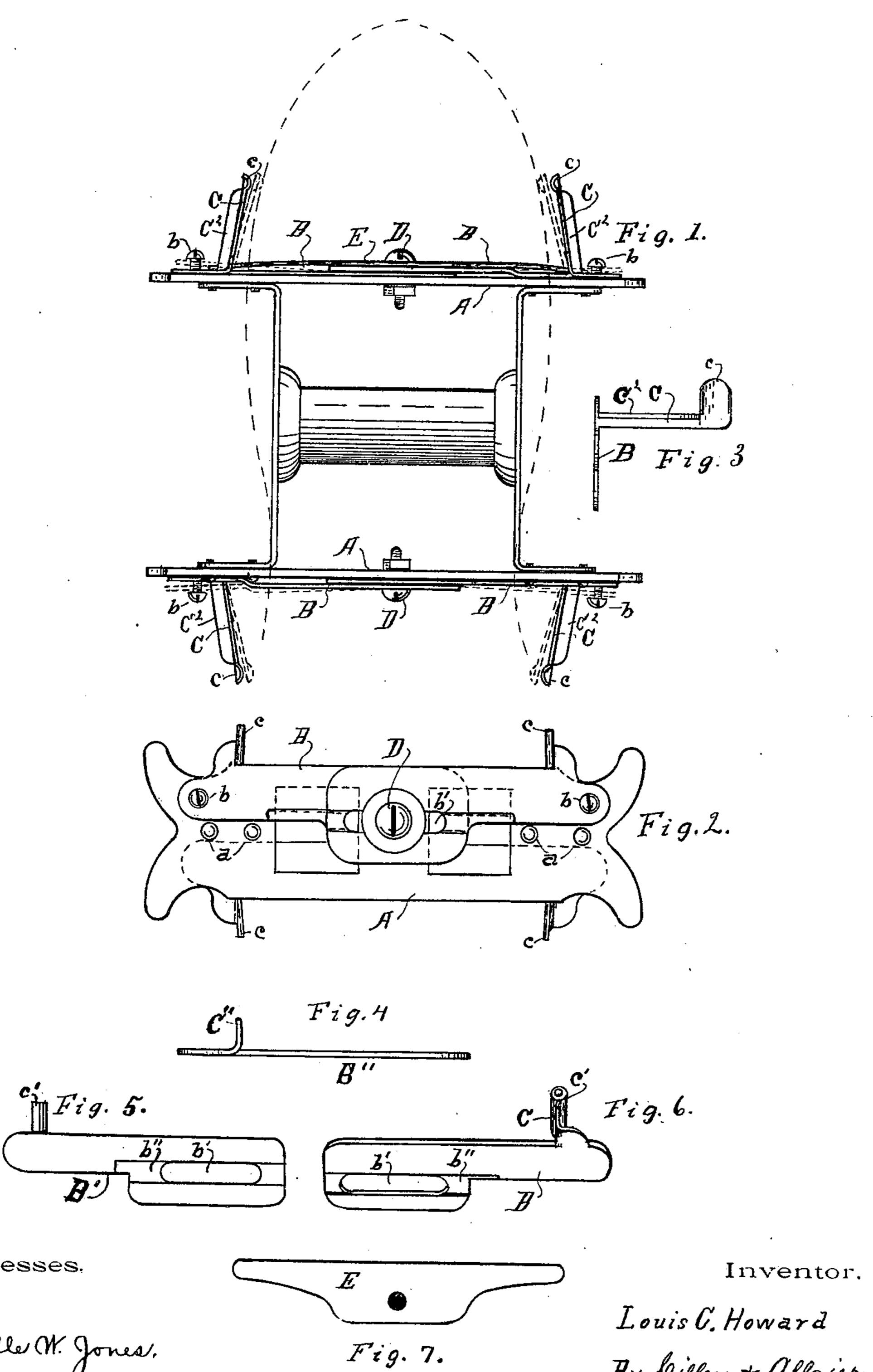
No. 626,165.

Patented May 30, 1899.

L. C. HOWARD. BICYCLE PEDAL.

(Application filed Feb. 11, 1898.)

(No Model.)



Witnesses.

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Attorneys.

United States Patent Office.

LOUIS C. HOWARD, OF GRAND RAPIDS, MICHIGAN.

BICYCLE-PEDAL.

SPECIFICATION forming part of Letters Patent No. 626,165, dated May 30, 1899.

Application filed February 11, 1898. Serial No. 669,959. (No model.)

To all whom it may concern:

Be it known that I, Louis C. Howard, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Bicycle-Pedals, of which

the following is a specification.

My invention relates to improvements in clips for use on bicycle-pedals; and its objects are, first, to provide toe-clips with which the pedals may be perfectly balanced, and, second, to provide toe-clips for use upon bicycles that may be readily adjusted to the width of the foot. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a plan of a pedal with my toeclips attached. Fig. 2 is a front elevation of the same. Fig. 3 is an end elevation of my clip, showing the manner of strengthening the same. Fig. 4 is a modified form of clip, showing a short projecting arm. Fig. 5 shows a rubber clip directly over the body of the slide or support. Fig. 6 shows the same at the end of the projecting arm, and Fig. 7 is an elevation of the brace.

Similar letters refer to similar parts throughout the several views.

My complete clip consists of two plates or 30 bodies B, provided with a central slot b', by means of which they are adjustably secured to the surface of the pedal with the bolt D, so that they may be readily adjusted laterally to meet the various widths of boot worn 35 by riders. Along the line of these slots I form depressions or guideways b'', the convex surface of one of which fits to slide freely in the concave surface of the other, so that the bodies or slides are thereby held in true 40 alinement. Upon each of these bodies or slides I form outwardly-projecting arms C, on the ends of which I form the clips or supporting-jaws c, which may be pressed from the metal, as indicated in Figs. 1 and 3, or may 45 be formed by placing a rubber cylinder c'upon the ends of the arm, as shown in Fig. 6. I strengthen these arms by turning a flange C² from the metal, as shown in Figs. 1 and 3, so that they will stand rigidly to position against 50 the soles of the boots. Aside from the general adjustment of the bodies upon the bolts

D, I provide for minute adjustment by means of the screws b, which screw through the ends of the slide and against the surface of the pedal-plate A, so that they may be made to 55 spring the ends of the slides out and throw the ends of the arms toward each other, as indicated by the dotted lines in Fig. 1. I secure these clips to the face or outer surface of the pedal-plates A and arrange to have 60 them rest upon the heads of the rivets a, so that there is no possible danger of their ends being thrown out of alinement with the plates.

In Figs. 4 and 5 I show the bodies of the clips B" and B' to designate these two forms 65 of clips as modifications of my regular form, (shown in Figs. 1, 2, and 3,) that in Fig. 4 as having a short unyielding arm C", and that in Fig. 5 as having the rubber clip c', secured directly over the upper edge of the body.

To further insure the support of the arms C, I place a plate or brace E against their bodies and secure it thereto with the bolt D, so that the ends will project beyond and support the arms C and prevent them, first, from 75 dropping down by the weight of the foot, and, second, to prevent them from springing out from the pedal when the foot is inserted between them.

Having thus fully described my invention, 80 what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a toe-clip for bicycle-pedals, bodies slidingly secured to the faces of the pedal-plates, longitudinal depressions in said bodies, 85 forming guides for holding them in alinement with each other and with the pedal, arms projecting out from said bodies, a supporting-web upon said arms, and clips at the ends of said arms, substantially as and for the pur-90 pose set forth.

2. In a toe-clip for bicycle-pedals, bodies slidingly secured to the pedal-plates, in pairs, longitudinal depressions in said bodies, forming guides for holding them in alinement 95 with each other and with the pedal, arms projecting from said bodies, strengthening-webs on said arms, and screws through the bodies and bearing against the plates for minute adjustment, of the arms, and a supporting-plate 100 between said arms, substantially as shown and described.

3. In a toe-clip for bicycle-pedals, bodies slidingly secured to the pedal-plates, screws therethrough and bearing against the plates for minute adjustment, longitudinal depressions in said bodies, forming guides for holding them in alinement with each other and with the pedal, arms projecting therefrom, and rubber tips to engage the soles of the

shoes, substantially, as and for the purpose set forth.

Signed at the city of Grand Rapids this 7th day of February, 1898.

LOUIS C. HOWARD.

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In presence of—
ANDREW ALLGIER,
ITHIEL J. CILLEY.

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