No. 611,374. Patented Sept. 27, 1898.

G. E. BUNDICK.

BICYCLE SUPPORT.

(Application filed Dec. 6, 1897.)

(No Model.)

Fig. 1.

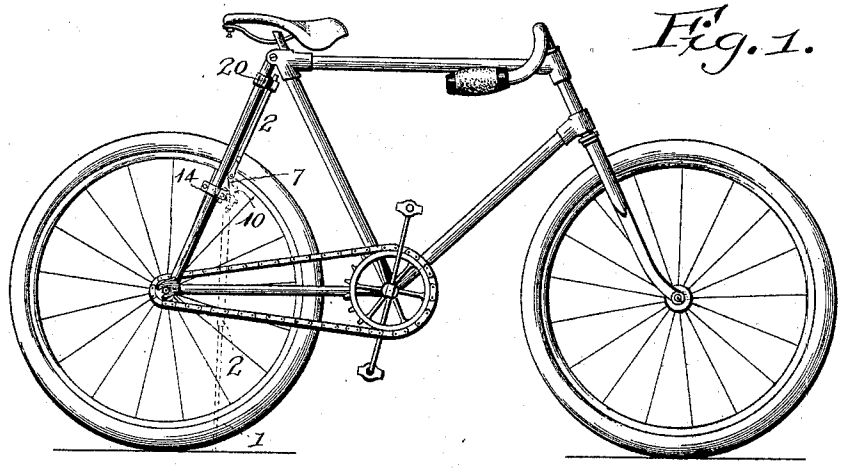


Fig. 4.

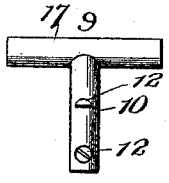
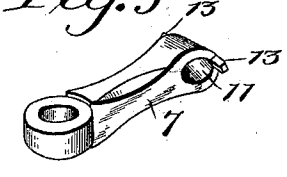


Fig. 2.

Fig. 3.

Fig. 5



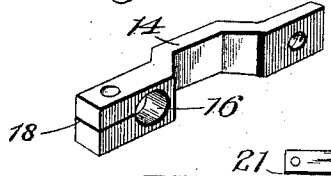
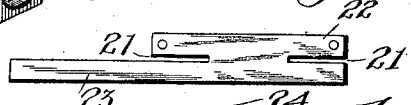


Fig. 6.



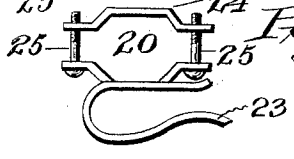


Fig. 7.

Witnesses

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UNITED STATES PATENT OFFICE.

GEORGE E. BUNDICK, OF BIG CANE, LOUISIANA, ASSIGNOR OF SEVEN-TWENTIETHS TO J. E. O'QUINN, OF SAME PLACE.

BICYCLE-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 611,374, dated September 27, 1898.

Application filed December 6, 1897. Serial No. 660,883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE E. BUNDICK, a citizen of the United States, residing at Big Cane, in the parish of St. Landry and State of Louisiana, have invented a new and useful Bicycle-Support, of which the following is a specification.

This invention relates to means for holding bicycles or similarly-constructed machines in an upright position when not in service without requiring props—such as trees, fences, posts, or buildings—the device being in the nature of a support applied to the machine-frame in such a manner as to fold when not in use, so as to be out of the way, and adapted to be turned into a position to engage with the ground or other surface and in conjunction with the machine support it in an upright position.

For a full understanding of the merits and advantages of the invention reference is to be had to the accompanying drawings and the following description.

The improvement is susceptible of various changes in the form, proportion, and the minor details of construction without departing from the principle or sacrificing any of the advantages thereof, and to a full disclosure of the invention an adaptation thereof is shown in the accompanying drawings, in which—

Figure 1 is a view in elevation of a bicycle, showing the support in position, the full lines illustrating the folded position and the dotted lines the relative relation of the support when turned into an operative position. Fig. 2 is a perspective view of the support on a larger scale, an intermediate portion being broken away. Fig. 3 is a detail view of a clamp member by means of which the device is attached to the machine-frame. Fig. 4 is a detail view of the T-coupling between the clamp and support. Fig. 5 is a detail view of the coupling-head between the T-coupling and rod or prop. Fig. 6 is a detail view of the blank from which the spring-clip is formed. Fig. 7 is a detail view of the spring-clip for receiving the end of the support when folded.

Corresponding and like parts are referred to in the following description and indicated in the several views of the drawings by the same reference characters.

The prop is capable of being lengthened and shortened and is composed of telescoping sections 1 and 2, the part 1 sliding within the part 2 and being operated by means of a set-screw 3, adapted to travel in a longitudinal slot 4 in the side of the tubular part 2 and having a notch 5 at its lower end to receive the set-screw when the prop is extended to its utmost limit, thereby relieving the set-screw of the strain required to hold the prop in working condition. The outer end of the part 1 is beveled or otherwise formed to provide a sharp edge to engage with the surface and prevent slipping. A bifurcated lug 6 is applied to or formed with the upper end of the part 2 and has the coupling-head 7 attached thereto by a rule-joint, the binding-screw 8, pivotally connecting the parts 6 and 7, providing means for increasing or varying the resistance to turning the prop, whereby it may be turned into an operative position.

A T-coupling 9 has its stem 10 mounted in a transverse opening 11 at the free end of the coupling-head 7 and is provided with pins or stops 12, coming upon opposite sides of the part 7 and adapted to engage with oppositely-extending lugs 13 of the part 7, whereby the prop is limited when unfolded, so as not to come against the wheel and to maintain the desired angle with the machine-frame to properly support the bicycle. For a purpose to be more fully hereinafter described the opening 11 is at substantially a right angle to the opening in the head 7 which receives the screw 8.

The clamp for securing the device to a frame-bar is composed of similar members 14, which are deflected outwardly intermediate of their ends to embrace the sides of the frame-bar to which the prop is secured. A bolt or clamp-screw 15 passes transversely through openings in the outer ends of the members 14 to clamp them upon opposite sides of a frame-bar, so as to secure the prop firmly when properly positioned. The inner or rear ends of the members 14 are made heavy or thick and are provided with transverse openings 16 to receive the ends of the cross-head 17 of the T-coupling 9, whereby these parts may be properly related. These rear ends of the clamp members are split, as shown at 18, the clefts extending into the openings 16, whereby provision is had for varying the size of the said openings to regulate the gripping action upon the cross-head, the split portions

being drawn together by bolts or clamp-screws 19. Upon loosening the clamp-screws 19 the part 9 can be turned in the openings 16 of the clamp members to secure the proper set of the stem 10, so as to insure the prop assuming a vertical position when lowered to support the machine. After the part 9 has been moved to the required position it remains fixed by turning up the clamp-screws 19 to compel the gripping of the cross-head 17 within the openings 16. The inclination of the frame-bars of different makes of machines varies. Hence the necessity of adjustably connecting the coupling 9 with the clamp to permit the swinging of the prop upon the stem 10 and have it come in a vertical plane when swung to the limit of its movement with reference to the head 7, and also admit of said prop folding close to the frame-bar when not in actual service.

The support may be used singly or in duplicate, in the latter arrangement being placed so that one will come upon each side of the machine-frame. The device may be applied to any convenient part of the machine, one of the backstays being preferred, as illustrated.

Referring now particularly to Figs. 1 and 2, (the said latter figure illustrating the support as applied to the left-hand backstay of a bicycle,) it will be seen that when in inoperative position the prop lies closely against and substantially parallel with the backstay of the machine, this relation between the stay and the prop being rendered possible by the hinge connection between the prop and the coupling-head and the pivotal connection between the cross-head of the T-coupling and the clamp, such pivotal and hinge connections permitting the coupling-head and the T-coupling stem to assume the positions indicated in full lines in Fig. 1. In this folded position the free end of the prop is engaged by the spring-clip 20, to which further reference will be made hereinafter, said clip being secured to the stay near the upper end thereof. To throw the prop into operative position, its end is disengaged from the clip 20, and the prop is then swung outwardly and downwardly upon the stem of the T-coupling as a pivot. The stops 12 limit the movement of the parts about the stem 10, and the hinge and pivotal connections between the prop, the coupling-head, and the T-coupling permit the free end of the prop to incline outwardly and away from the bicycle, while the said prop lies in a vertical plane, thus avoiding any tendency of the wheel to move backwardly or forwardly, as would result were the support inclined either to the front or rear.

The spring-clip above referred to is composed of a blank of spring sheet metal having inwardly-extending slits 21 from its opposite ends, forming parts 22 and 23, the terminals of the parts 22 being pierced and the end portions of the parts 23 being bent into an approximately U form, providing the clip proper, which receives the end portion of the prop. A clamp member 24 coöperates with the parts 22 and bolts or screws 25 to secure the clip in place.

Having thus described the invention, what is claimed as new is—

1. A bicycle-support comprising a coupling having a stem and a cross-head, a prop mounted upon the stem to swing in a plane at right angles thereto, and a member having adjustable connection with the cross-head of the coupling and adapted to be secured to a bar of the machine-frame, substantially as set forth.

2. A bicycle-support comprising a coupling having a stem and a cross-head, a coupling-head mounted upon said stem to swing in a plane at right angles thereto, a prop having hinged connection with the coupling-head to swing in the plane thereof, and a member having adjustable connection with the cross-head of the coupling and adapted to be applied to a bar of the machine, substantially as described.

3. In a bicycle-support, the combination of a clamp comprising corresponding members, a T-coupling having its cross-head adjustably connected with the members of the clamp, a coupling-head mounted upon the stem of the T-coupling to swing in a plane at right angles thereto and having a limited outward movement, and a prop having hinged connection with the coupling-head to swing in the plane thereof and limited in its outward movement, substantially as set forth.

4. A support for bicycles and the like, comprising a member for attachment to the bicycle-frame, a coupling having a stem and also having a cross-head adjustably mounted upon the attaching member, a prop having connected thereto a member provided with a transverse opening receiving the stem of the coupling, a lug extending laterally from the said member provided with the opening, and a projection upon the stem in the path of movement of the lug; substantially as described.

5. A support for bicycles and the like, comprising a member for attachment to the bicycle-frame, a coupling having a stem and also having a cross-head adjustably mounted upon the attaching member, a prop having connected thereto a member provided with a transverse opening receiving the stem of the coupling, a lug extending laterally from the said member provided with the opening, and a projection upon the stem in the path of movement of the lug, the said projection lying between the member provided with the opening for the stem and the free end of the stem; substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

GEO. E. BUNDICK.

Witnesses:
S. P. WARD,
A. KUHN.