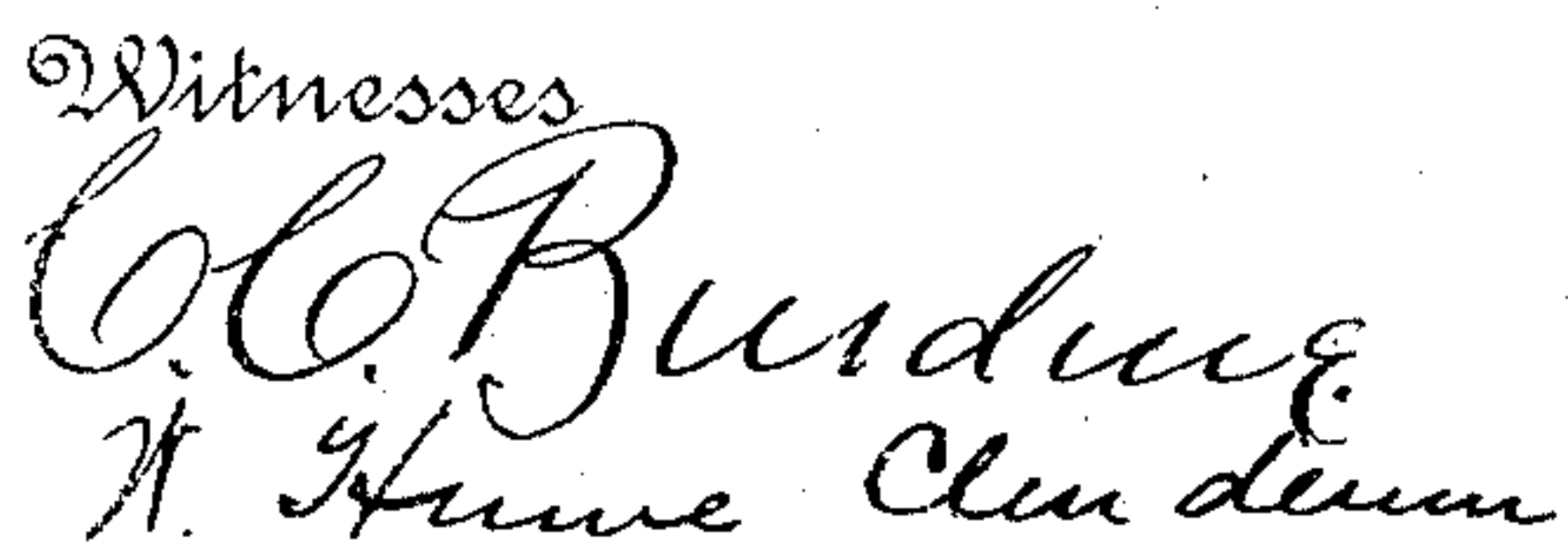


M. L. SCHOCH.
BICYCLE SUPPORT.

Patented May 10, 1892.



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UNITED STATES PATENT OFFICE.

MARTIN L. SCHOCH, OF NEW BERLIN, PENNSYLVANIA.

BICYCLE-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 474,415, dated May 10, 1892.

Application filed December 3, 1891. Serial No. 413,918. (No model.)

To all whom it may concern:

Be it known that I, MARTIN L. SCHOCH, a citizen of the United States, residing at New Berlin, in the county of Union and State of Pennsylvania, have invented certain new and useful Improvements in Bicycle-Supporters; and I do 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 it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to that class of bicycle-supports which are attached to the bicycle and arranged to drop down to engage the ground and prevent tipping whenever the bicycle is stopped.

The purpose of my device is to provide more convenient, practical, and effective means than has heretofore been conceived or used; and to this end it consists in the peculiar features and combinations of parts, more fully described hereinafter, and pointed out in the claims.

In the accompanying drawings, which represent my invention, Figure 1 is a view showing my invention as attached to an ordinary bicycle, the rear wheel and part of the brace-rod being broken away to better show my improvement; Fig. 2, an end elevation showing the position of parts when the support is not in use; Fig. 3, views of details.

The reference-figure 1 represents the brace-rod of an ordinary bicycle, to which my invention is attached. A clip 2 is attached to the brace-rod 1 by means of a screw 3, which passes through a hole 4 in it and then through washers 5 and 6, placed on each side of the brace-rod 1. By using these washers, which are concaved on one side to fit the round brace-rod, it will be seen that my invention can be attached to any brace-rod, whether slanting or straight. Branching from the lower end of the clip 2 are two projecting brackets 7 and 8, having bolt-holes 9 and 10 in their centers. Attached to the upper end 11 of the clip on the opposite side from the brackets is movably secured a ring 12, the purpose of which will be described later. A supporting-rod having the form of a bell-crank lever with a long arm

16 and a short arm 13 is pivoted between the brackets 7 and 8 by means of a bolt-hole 14 at its thickest or pivotal point. Pivoted at 15 to the long arm 16 of the supporting-rod is another shorter rod 19, which, when not in use, is folded back on and secured to the long arm 16, thus facilitating packing and will be out of the way while riding. Attached to the upper inside face of the short arm 13 is a plate-spring 17, the lower end of which bears against the inside face of the clip 2 and which normally holds the short arm of the supporting-rod away from the clip, as when riding. The upper end of the short arm 13 is adapted to receive the ring 12, which fits over it, and the arm has a lug or projecting nose 18 on its outer face, which holds and prevents the ring from slipping off.

In using and applying my supporter, the operator first bores a hole in the brace-rod 1, then places the concaved faces of the washers against the opposite convex faces of the rod with the clip against one of the washers on the side of the machine he wishes to place the supporter, securely fastening the four by means of the screw 3. He then inserts the supporting-rod between the brackets 7 and 8 and slips the bolt through the bolt-holes 9 and 10, which register with the bolt-hole 14 in the supporting-rod. The supporter is then ready for use, and when it is desired to support the wheel when not riding the short arm 13 of the supporting-rod is pressed against the clip 2, which movement pushes the long arm 16 away from the machine, and the ring 12 is then thrown over its upper end, thus locking the arm to the clip. The rod 19 is then unfolded, which lengthens the long arm 16 and supports the bicycle in a slanting position. When riding, the ring is removed from the top of the short arm 13 and the plate-spring 17 pushes the short arm away from the clip, which movement swings the long arm nearer the frame of the bicycle, where it is held by the continued pressure of the spring 17.

It will be seen that by using the washers 5 and 6 on both sides of the brace-rod my supporter can be attached to any bicycle either having a horizontal or a backward-slanting connecting-bar, always keeping in mind that the clip should be in an upright position.

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

- 5 1. In a bicycle-support, a clip for securing the supporting-rod, in combination with washers, whereby the clip may be attached to either a slanting or horizontal base, substantially as described.
- 10 2. In a bicycle-support, a clip provided with brackets and a spring secured to its inner face, in combination with a bell-crank supporting-lever secured between the brackets, said spring bearing upon the short arm thereof, keeping it in position when not in use, substantially as described.
- 15 3. In a bicycle-support, a clip provided with brackets and a ring secured to the clip, in combination with a bell-crank supporting-lever supported between said brackets, said ring being adapted to pass over the short arm of said lever and hold it in position when in use, substantially as described.
- 20 4. In a bicycle-support, a supporting-rod having the form of a bell-crank lever and fulcrumed to the frame of the machine, in combination with a spring at the upper end for holding it in closed position, and a fastening device for holding it outward, substantially as described.

5. In a bicycle-support, a clip secured to the frame by bolts and adjustable washers and brackets at the lower end of the clip, in combination with a bell-crank supporting-lever secured between said brackets, a plate-spring secured to the upper inner face of the clip, and a ring secured to the upper part of the clip, which holds the lever in position when in use, substantially as described.

6. A bicycle-support comprising a lever secured to a clip, said clip being secured to the bicycle by bolts, substantially as described.

7. A bicycle-support comprising a supporting-rod, in combination with a clip secured to the bicycle by bolts and washers, one side of said washers being made concaved, substantially as described.

8. In a bicycle-support, a rod and a spring for normally holding it out of operative position, in combination with a ring or loop adapted to drop over the top of the rod to hold it in operative position, in the manner and for the purpose substantially as described.

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

MARTIN L. SCHOCH.

Witnesses:

J. D. WINTER,
G. W. BENFER.