(No Model.)

L. H. SNYDER.

BICYCLE HOLDER.

No. 599,645. Patented Feb. 22, 1898.

Fig. 1.

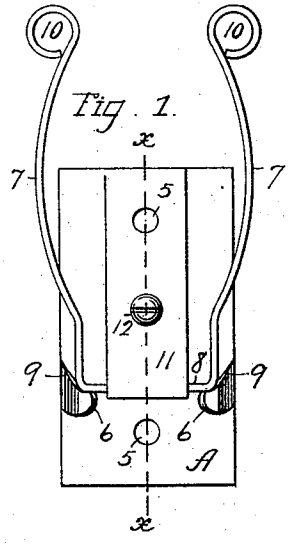


Fig. 2.

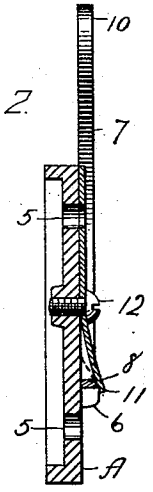


Fig. 3.

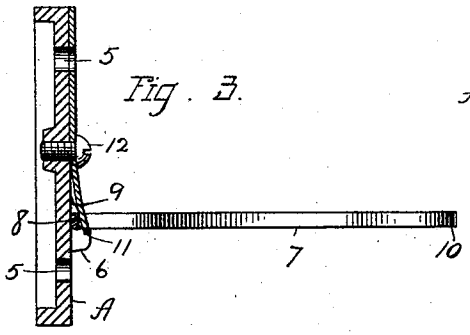
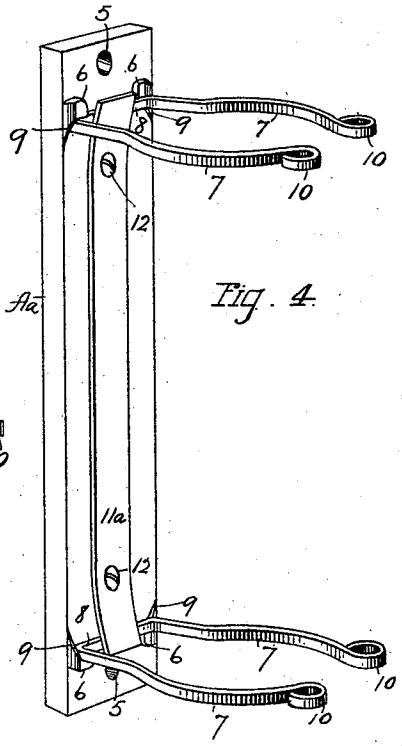


Fig. 4.



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BICYCLE-HOLDER.

SPECIFICATION forming part of Letters Patent No. 599,645, dated February 22, 1898.

Application filed June 15, 1897. Serial No. 640,808. (No model.)

To all whom it may concern:

Be it known that I, LYMAN H. SNYDER, a citizen of the United States, residing at Southington, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Bicycle-Holders, of which the following is a specification.

My invention relates to improvements in bicycle-holders; and the main object of my improvement is to furnish a simple and convenient article for attachment to a post or building for holding a bicycle in an upright position.

In the accompanying drawings, Figure 1 is a front elevation of my holder with its spring-arms turned up, so as to be out of the way. Fig. 2 is a vertical section of the same on the line *x x* of Fig. 1. Fig. 3 is a like view of the same with the spring-arms turned down in position for use. Fig. 4 is a perspective view of my holder as provided with two pair of spring-arms, the same being represented with the said arms in position for use.

A designates a base-plate provided with screw-holes 5 5 for the convenient attachment of the device to the side of a building or other suitable support. On the front of said base-plate, near its end, are two stop-lugs 6 6, with side webs 9 extending upwardly from the outer side of said lugs to the edges of the base-plate.

I form a pair of spring-arms 7 7 from a single piece of metal with a flattened shank 8, that connects their inner ends. The outer ends of the spring-arms are provided with rolls or coils 10 to serve as guides, and the body of the arms are bowed outwardly, as best shown in Fig. 1, in order to better embrace a pneumatic bicycle-tire. The general contour of the spring-arms and their shank in plan view is substantially that of a flattened **U**. The shank 8 is long enough to span both of the stop-lugs and a little less in length than the distance from one of the side webs 9 to the opposite side web. A spring 11 is secured to the base-plate by any suitable means, preferably by the screw 12. The spring-arms are placed on the base-plate with their shank over the lugs and between the side webs, and there they are secured by means of the spring 11. The spring 11 will prevent the spring-arms from working upwardly and forwardly out of place. The stop-lugs prevent it from working downwardly and the side webs prevent lateral displacement, and thus the arms are practically hinged to the base-plate and may be turned up from the position shown in Fig. 3 to that shown in Fig. 1, and vice versa, as if on a regular hinge-pintle. The stop-lugs, in addition to confining the spring-arms in place, act as a stop to prevent them from being turned down beyond a right-angular position to the base, while the angular faces of the flattened shank are acted upon by the spring and serve to hold the arms against being accidentally turned out of place on their hinge.

The device should be secured on its support with its spring-arms at a height equal to or a little above half the diameter of the bicycle-wheel to be received within the said spring-arms.

The holder shown in Fig. 4 is of the same general construction. The base-plate A *a* is made long enough for two pair of spring-arms, and the spring 11^a is long enough to bear upon the shanks of both pair of arms. All the other parts are of the same construction as before described and have the same reference-numerals, but the upper pair of spring-arms and coacting parts are arranged so that said arms turn down for folding out of the way against the base-plate, and vice versa. In securing this holder to its support it should be set with the middle of its length a little above the axis of the wheel to be held.

When the holder is not in use, the spring-arms are turned back against the base-plate out of the way, as shown in Figs. 1 and 2. For holding a bicycle the spring-arms are turned into their horizontal position, as shown in Figs. 3 and 4, and one of the wheels of the bicycle may be run in between the spring-arms to hold the bicycle in an upright position. In thus running the wheel into the arms the said arms spring outwardly to admit the wheel and then spring toward each other to embrace the pneumatic tire. Thus the wheel will be supported against falling

over laterally, and if the arms are properly curved they will also tend to prevent the bicycle from running backward, so as to withdraw from the holder.

I claim as my invention--

The combination of the base-plate having stop-lugs and side webs, with the pair of spring-arms having an angular shank resting on said base-plate between said side webs, and a spring pressing against said shank, substantially as described.

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Witnesses:
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