No. 631,665. Patented Aug. 22, 1899.

W. M. POTTER.

BICYCLE STAND.

(Application filed Sept. 3, 1898.)

(No Model.)

Fig. I.

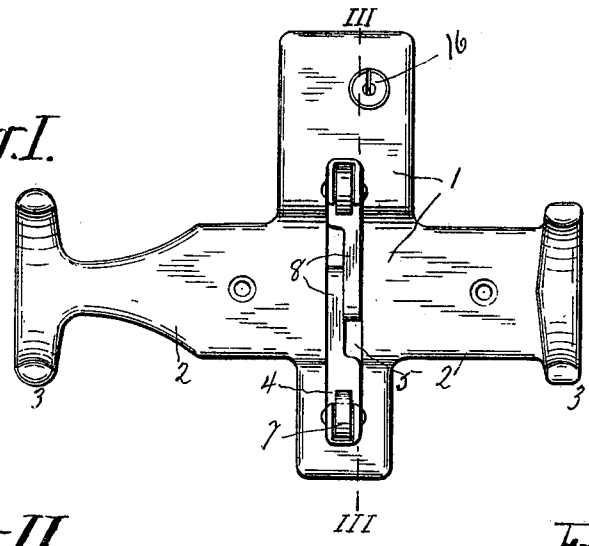


Fig. II.

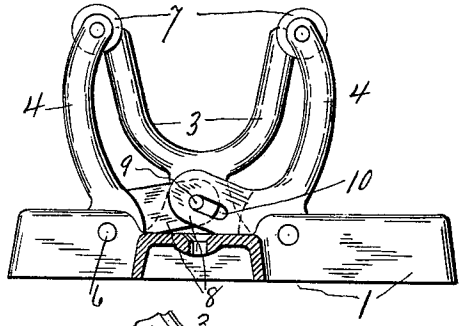


Fig. III.

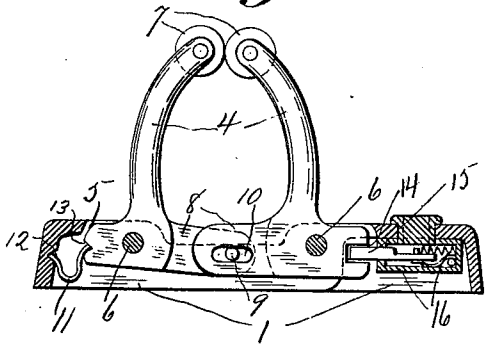
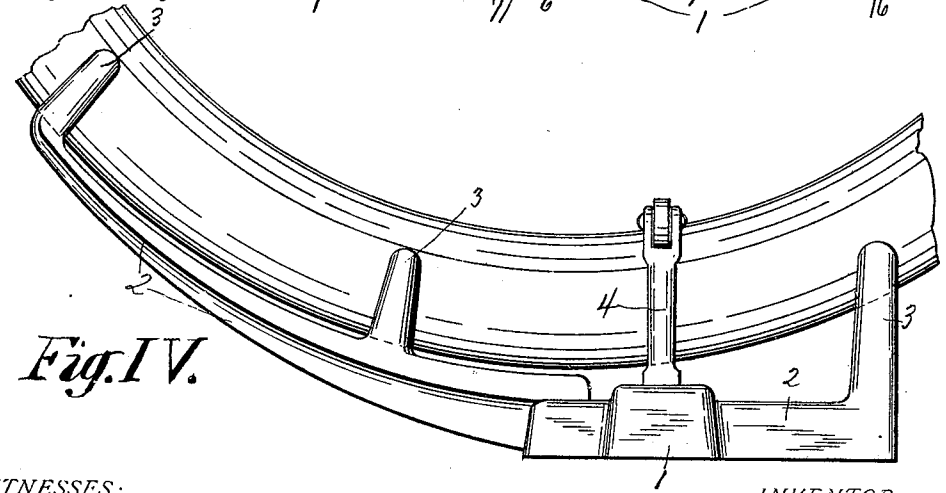


Fig. IV.



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WILLIAM M. POTTER, OF SYRACUSE, NEW YORK, ASSIGNOR TO E. C. STEARNS & CO.

BICYCLE-STAND.

SPECIFICATION forming part of Letters Patent No. 631,665, dated August 22, 1899.

Application filed September 3, 1898. Serial No. 690,157. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM M. POTTER, of Syracuse, in the county of Onondaga, in the State of New York, have invented new and useful Improvements in Bicycle-Stands, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

What I have invented is a combined support and lock for a bicycle, consisting of a base of construction suitable to be set horizontally or secured to a wall, integral therewith, arms carrying forks of suitable size and shape to receive a wheel of a bicycle, and, pivoted to the base, a pair of concave jaws adapted when closed to embrace and engage with the wheel, in which position they are secured by a suitable locking device. A spring or springs are also arranged bearing against one or both of said pivoted jaws, tending to hold them in a closed position when automatically closed by setting the wheel in place and in an open position when automatically opened by the removal of the wheel.

My invention will be understood by reference to the accompanying drawings, in which the same reference-numerals indicate the same parts in all the figures.

Figure I is a top plan view of my invention. Fig. II is an end view thereof with the jaws open. Fig. III is a sectional view on line III III of Fig. I, showing the jaws closed. Fig. IV is a side elevation of my support slightly modified in form.

In the figures, 1 indicates the base, adapted to stand firm in a horizontal position or be attached to a wall. 2 2 are integral arms extending therefrom, carrying the concave forks 3, so arranged as to receive and support the wheel of a bicycle.

4 4 are jaws set in a slot 5 and pivotally secured to the base at 6 6, so that when closed they engage with the rim and tire of the wheel, holding it securely in position. Their ends are terminated by soft tips to avoid injuring the wheel, preferably as herein shown in the form of antifriction-rollers 7 7, of rubber, felt, or similar material.

The jaws are provided with inwardly-extending arms 8 8, fitted to swing into the slot and hinged together by pin 9 and slot 10, so that any opening or closing force applied to one arm affects the other. These lower arms are arranged to extend upwardly above the surface of the base when the jaws are open, so that when a wheel is set in position they are forced down, closing the jaws.

Within the slotted base, at one side, is arranged a spring 11, engaging with notches 12 13, formed, respectively, in base and lower end of jaw, so arranged as to operate on both sides of the dead-center, tending to hold the jaws in their open position when opened and in their closed position when closed.

In one of the jaws is formed the slot 14, with which engages the bolt 15 of lock 16, of any desirable construction, for positively securing the jaws in their closed position and preventing the removal of the bicycle.

While I prefer the construction herein described, it is evident that it is not necessary to hinge the jaws together; but springs may be applied to both of said jaws and the lock arranged to engage with one or both of said jaws.

The modification shown in Fig. IV is very simple, consisting merely in the elongation of one of the arms and constructing it with two or more integral forks instead of one.

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

1. A bicycle-stand composed of three main parts, a flat metallic base having a hollow under surface and a lateral slot, two integral jaw members arranged in said slot and each pivoted to said base by a single pin, each of said integral jaw members consisting of an upwardly-extending curved jaw extending above said base, an inwardly-extending arm lying within said slot when said jaw members are closed and extending above said base when they are open, an outwardly-extending shorter arm having a notch on its outer end, said inner arms hinged together by a pin and slot, and in combination therewith a spring engaging with one of said notches and retained between the corresponding arm and the inner surface of the base, and a lock of suitable construction for engaging with the opposite notch.

2. In combination in a bicycle-stand, an in-

tegral flat base having a hollow under surface, lateral extensions, a lateral slot, integral arms extending from the front and rear of said base and at right angles to said lateral projections, each of said arms having a fixed fork on its outer end, similar jaw members arranged in said slot and secured to the base each by a single pivot, consisting of upwardly-extending curved jaws having thin rollers of soft material pivoted in their upper ends, to engage with the rims of a bicycle, when they are swung together, of inwardly-extending arms hinged together and of outwardly-extending arms having notches on their outer ends, a double-acting spring engaging with one of said notches and arranged between the corresponding outer arm and the inner surface of the base, and a lock secured to said base for engaging with the opposite notch.

In testimony whereof I have hereunto signed my name.

WILLIAM M. POTTER.

Witnesses:
MARK W. DEWEY,
H. M. SEAMANS.