No. 633,010. Patented Sept. 12, 1899.

E. E. JOSEF.

BICYCLE SUPPORT.

(Application filed Aug. 13, 1897.)

(No Model.)

Fig.1.

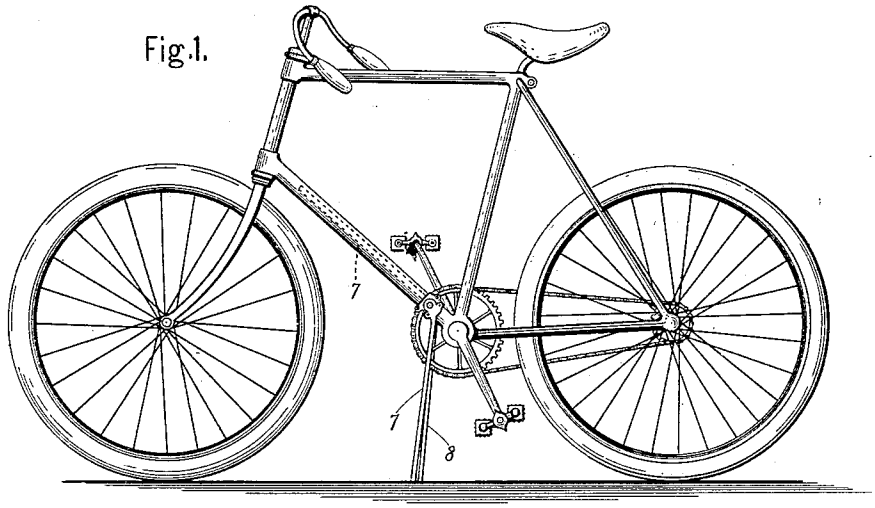


Fig.3.

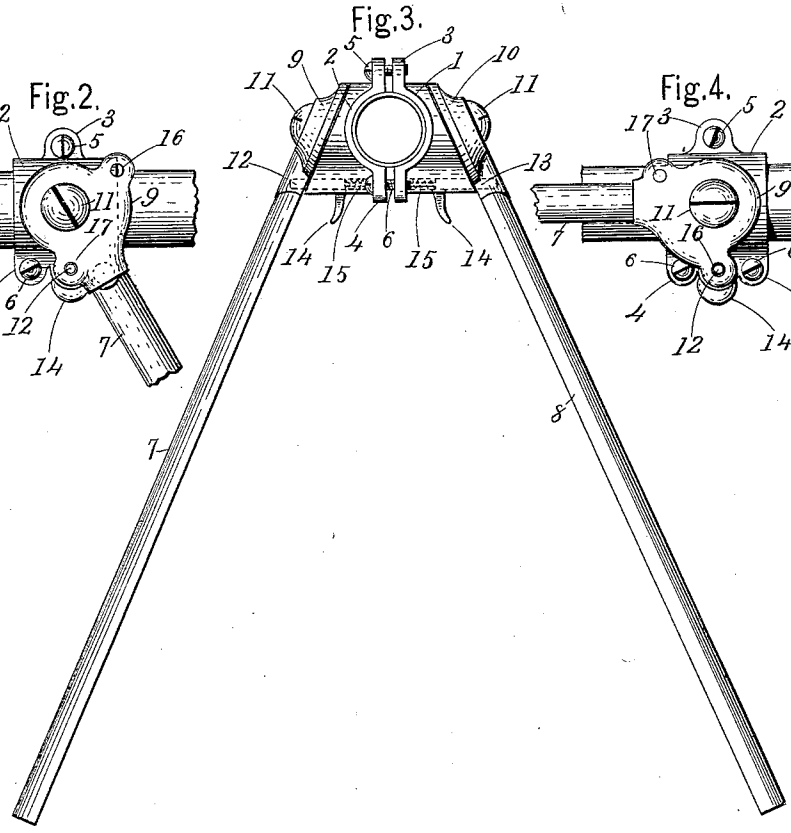


Fig.2.

Fig.4.

Witnesses,

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UNITED STATES PATENT OFFICE.

EDWARD E. JOSEF, OF BUFFALO, NEW YORK.

BICYCLE-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 633,010, dated September 12, 1899.

Application filed August 13, 1897. Serial No. 648,141. (No model.)

To all whom it may concern:

Be it known that I, EDWARD E. JOSEF, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Bicycle-Supports, of which the following is a specification.

My invention relates to a device for supporting a bicycle in an upright position and which when not in use can be folded against the frame-tube to which the device is attached, all of which will be fully and clearly hereinafter described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 represents a side elevation of a bicycle, my improved device being shown attached thereto in its supporting position in full lines and also in its folded position against the frame in dotted lines. Fig. 2 represents an enlarged side elevation of the device clamped to a piece of tubing, illustrating the position of the device when open. Fig. 3 represents a rear elevation showing the device clamped to a piece of bicycle-tubing, showing also the supporting position of the device. Fig. 4 is an enlarged side elevation of the device, showing one of the supports folded against the side of the frame-tube.

Referring to the drawings for the details of construction, in which like numerals designate like parts, 1 and 2 represent the two clamping portions, which are provided with the ears 3 and 4, through which the screws 5 and 6 are passed to lock the two portions to each other and around the frame-tube.

The supporting-arms 7 and 8, which are preferably formed of steel tubing, having one side flattened or slightly curved to fit against the frame-tube when closed, are provided with enlarged end portions 9 and 10. These enlarged end portions are pivoted by screws 11 or other well-known means to the outer faces of the clamping portions, so that they can easily rotate thereon.

It will be noticed by referring to Fig. 3 that the outer faces of the clamping portions incline from each other in a downwardly direction and at a sufficient angle to cause the supporting-arms when open to spread from each other at their lower ends, and thus support the bicycle in a substantially upright position. While the arms are being closed, their lower ends draw toward each other, and thereby fit snugly against the frame-tube when in the position shown by dotted lines in Fig. 1.

I have provided a positive locking mechanism for locking the arms in their opened or closed position, which consists of the locking-bolts 12 and 13, each mounted in one of the clamping portions 1 and 2, so as to slide easily therein. These locking-bolts are each provided with downwardly-projecting portions 14, which I term "operating-fingers," and springs 15. (See dotted lines in Fig. 3.)

The enlarged end portions 9 and 10, it will be noticed by referring to Figs. 2 and 4, are each provided with two circular openings 16 and 17, the opening 16 being arranged to receive the end of the locking-bolt when the supporting-arm is in its correct open position and the opening 17 when the arm is in its closed position, the spring 15 forcing the bolt outwardly, and thus causing the end of the said locking-bolt to move into either of the openings when opposite, and thereby automatically lock the supporting-arm when brought into either its open or closed position.

To operate this device, it is clamped to the frame-tube in substantially the position shown in Fig. 1, and if it is desired to support the wheel in an upright position the arms are placed in the position shown in full lines in said Fig. 1. To close the arms, the operating-fingers are pressed toward each other, thus withdrawing the locking-bolts from the openings and allowing the said arms to rotate on their pivots.

I claim as my invention—

A device for supporting a bicycle in an upright position, comprising two semicircular clamping portions adapted to partially encircle the frame-tube, and each provided with a diagonally outward and downward inclining outer face and projecting ears, bolts passing through said ears for drawing the portions toward each other and tightly around the tube, a locking-bolt mounted in each of said clamping portions and adapted to slide easily therein, springs for holding said bolts in a normally-locked position, operating fingers or triggers for retracting said bolts, upon their movement toward each other by the operator, two supporting-arms each having an enlarged upper end provided with a circular opening

and two lugs having openings projecting from the sides of said end, screw-bolts passing through said circular openings in the ends to pivotally fasten said supporting-arms to the diagonal outer faces of the clamping portions, the openings in two of the lugs, one on each of the supporting-arms, being adapted to receive the bolts when the arms are in their open positions spread from each other to support a bicycle and the openings in the remaining lugs being adapted to receive the bolts when in their closed positions, as set forth.

EDWARD E. JOSEF.

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