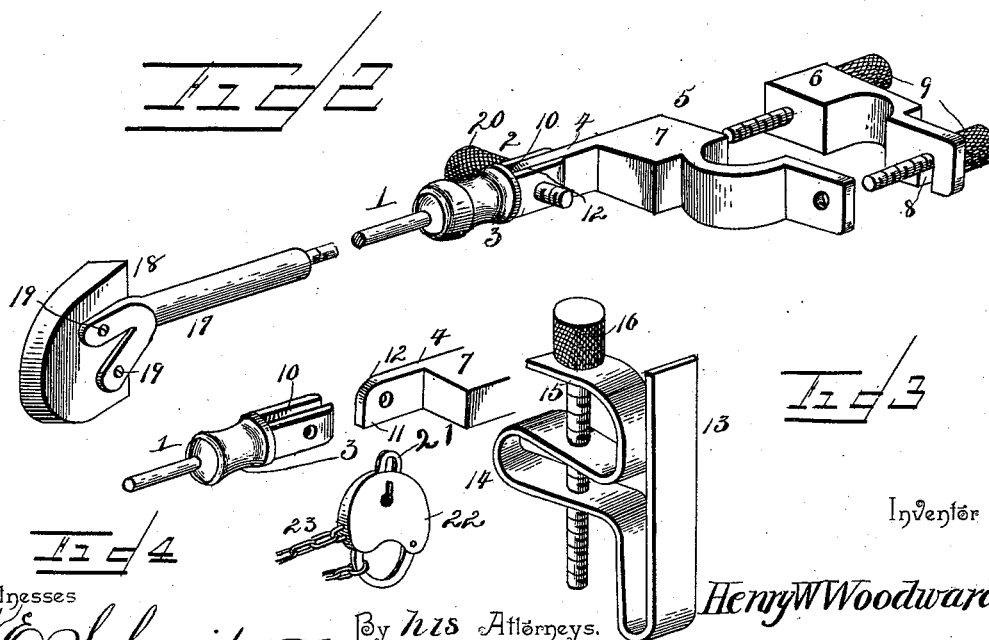
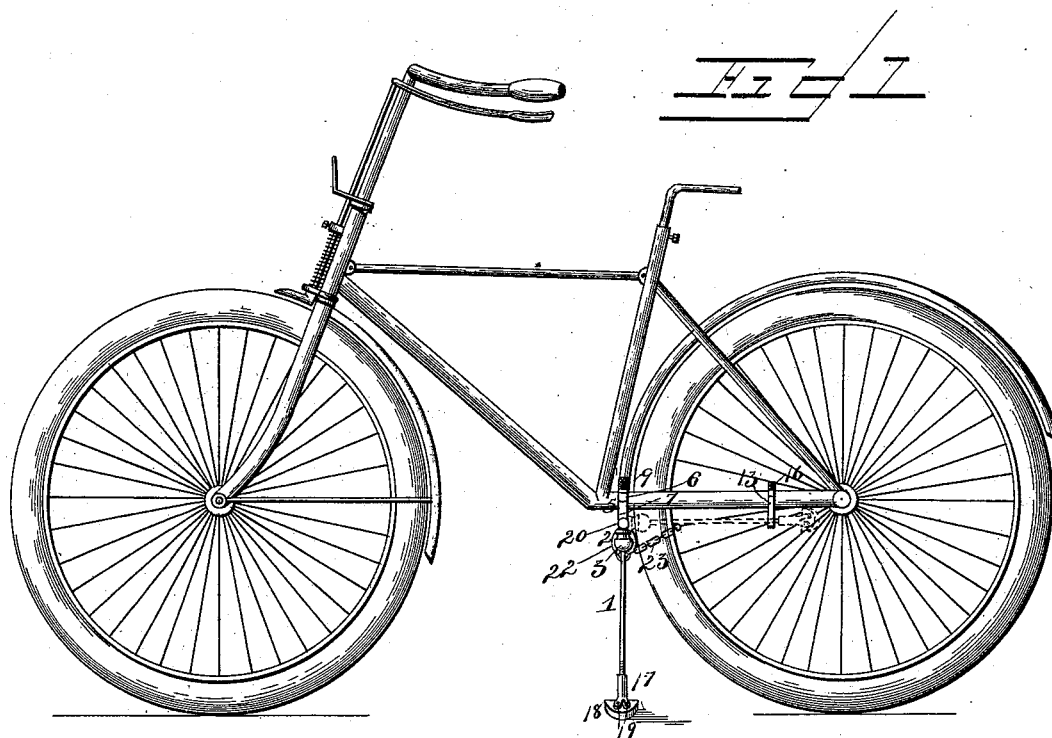


(No Model.)

H. W. WOODWARD.
SUPPORTING ATTACHMENT FOR BICYCLES.

No. 523,952.

Patented July 31, 1894.



Witnesses

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HENRY WINSOR WOODWARD, OF CHICOPEE, MASSACHUSETTS.

SUPPORTING ATTACHMENT FOR BICYCLES.

SPECIFICATION forming part of Letters Patent No. 523,952, dated July 31, 1894.

Application filed May 27, 1893. Serial No. 475,710. (No model.)

To all whom it may concern:

Be it known that I, HENRY WINSOR WOODWARD, a citizen of the United States, residing at Chicopee, in the county of Hampden and State of Massachusetts, have invented a new and useful Supporting Attachment for Bicycles, of which the following is a specification.

My invention relates to devices for supporting bicycles in an upright position when not in use and without the assistance of stationary objects, such as buildings, trees, &c., and the object in view is to provide a simple, inexpensive and efficient apparatus adapted to be carried in a convenient position upon the machine and capable of being readily and quickly manipulated to assume its operative or its folded position.

Further objects and advantages of my invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claim.

In the drawings—Figure 1 is a side view of a bicycle provided with a supporting attachment embodying my invention, the parts being shown in full lines in their operative positions. Fig. 2 is a perspective view of a supporting leg with parts detached to show means for connecting to a machine. Fig. 3 is a detail view of the holder. Fig. 4 is a detail perspective view of the attachment to show the construction of the joint between the members.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

1 represents a supporting leg which is connected by a universal joint 2 to the socket piece 3, such socket piece being pivotally connected to a depending tang 4 of the clamp 5. Such clamp comprises the separable members 6 and 7, of which 7 carries the said depending tang 5 and 6 is pivotally connected to the member 7 and is provided with a slotted free end 8 engaged by a locking screw 9. The members of the clamp are separable and connected by means of bolts in order to permit of adjustment to fit bars of different sizes. The depending tang 5 fits in a bifurcation 10 at the upper end of the socket piece and is provided with an irregular shaped end, hav-

ing a sharp angle 11 and a rounded angle 12, as shown clearly in Fig. 4, whereby the socket piece may be swung in one direction to a position at a right angle to the plane of the clamp, and in the other position is checked in alignment with the tang, or in the plane of the clamp. The forward swing of said socket piece is checked to enable the supporting leg to maintain a rigid position, and the rearward swing of said socket piece is adapted to enable the free end of the supporting leg to be elevated to engage a holder 13 which is secured to a fixed portion of the framework of the bicycle. This holder consists of a spring jaw having one of its arms bent laterally and then upon itself to form a loop 14 and again upon itself to form an oppositely extending loop 15, an adjusting bolt 16 being fitted in registering openings in the sides of said loops and adapted, when tightened, to contract the loops to engage the portion of the frame encircled by the loop 15.

Threaded upon the lower end of the supporting leg is a foot piece 17 to which is attached a shoe 18 preferably of rubber or similar elastic or friction material. Said shoe is secured to the foot piece by means of screws 19 to permit of replacement when the parts become worn.

Connected to the main or lower member of the clamp by means of a pivot screw 20 and a loop 21 are a lock 22 and a chain 23 which are adapted to be engaged by said lock. Thus the chain and lock, which are used in the ordinary way to secure the parts of the machine against operation when not in use, are carried by the supporting attachment, thus combining the functions of both in a single apparatus.

The universal or ball and socket joint by which the upper end of the supporting arm is connected to the socket piece permits of a freedom of movement of the supporting leg which is desirable in a device of this kind in that it enables the rider to adjust such leg in position to compensate for irregularities in the pavement or surface to prevent the machine from being affected by grade, &c.

Having described my invention, what I claim is—

The combination with a supporting leg, and

means for connecting the same to a machine,
of a holder having a jaw to receive said sup-
porting leg, oppositely-disposed loops 14 and
15 formed integral with one side of said jaw,
5 one of the loops being adapted to engage the
framework of the machine, and an adjusting
screw engaging registering perforations in the
sides of the loops, substantially as specified.

In testimony that I claim the foregoing as
my own I have hereto affixed my signature in 10
the presence of two witnesses.

HENRY WINSOR WOODWARD.

Witnesses:

WILLIAM A. ANDREW,
JOHN D. WHITE.