No. 607,779. Patented July 19, 1898.

S. WELCH & H. A. BURKHART.

BICYCLE SUPPORT.

(Application filed Aug. 11, 1897.)

(No Model.)

Fig. 1.

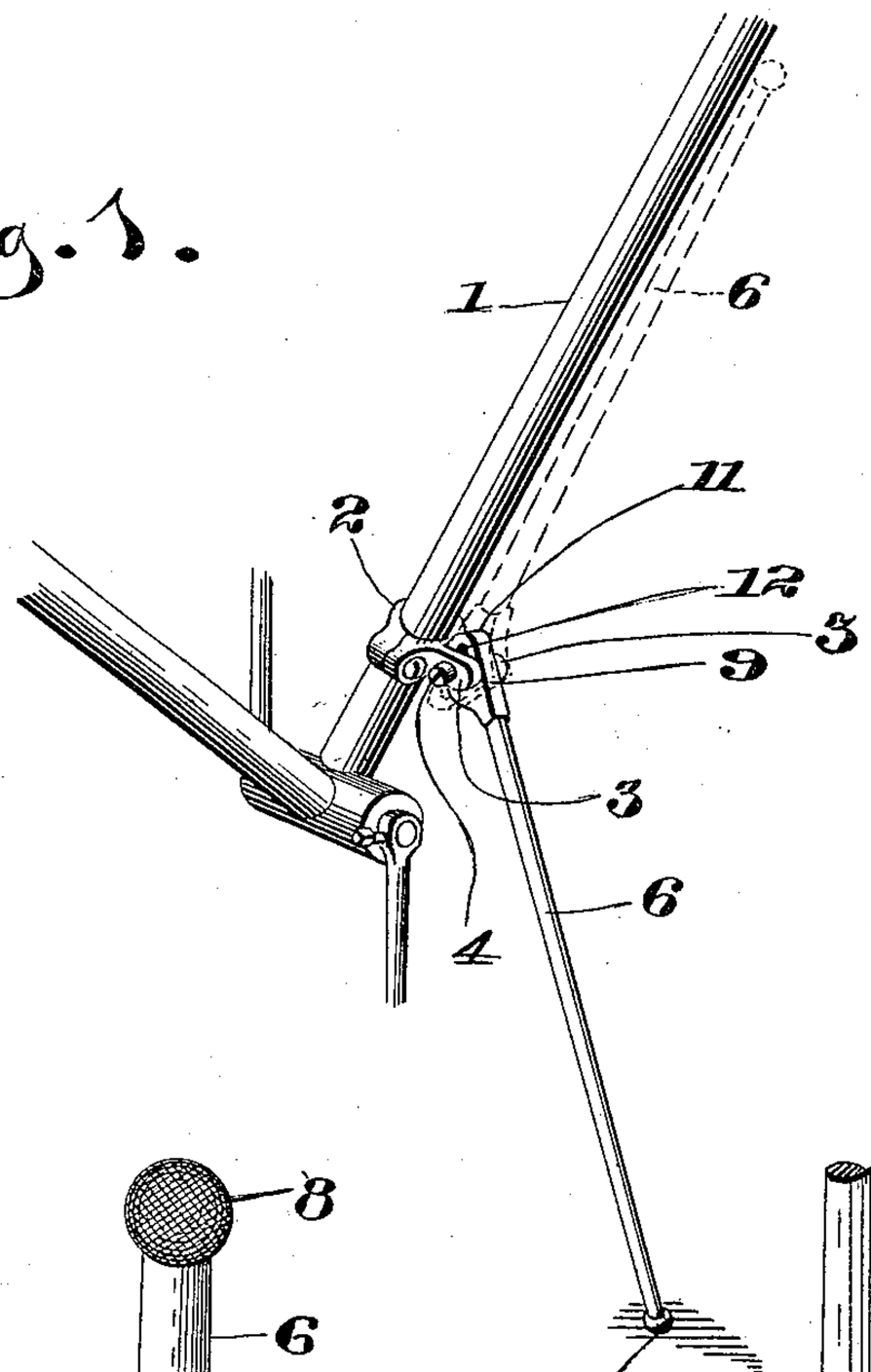


Fig. 2.

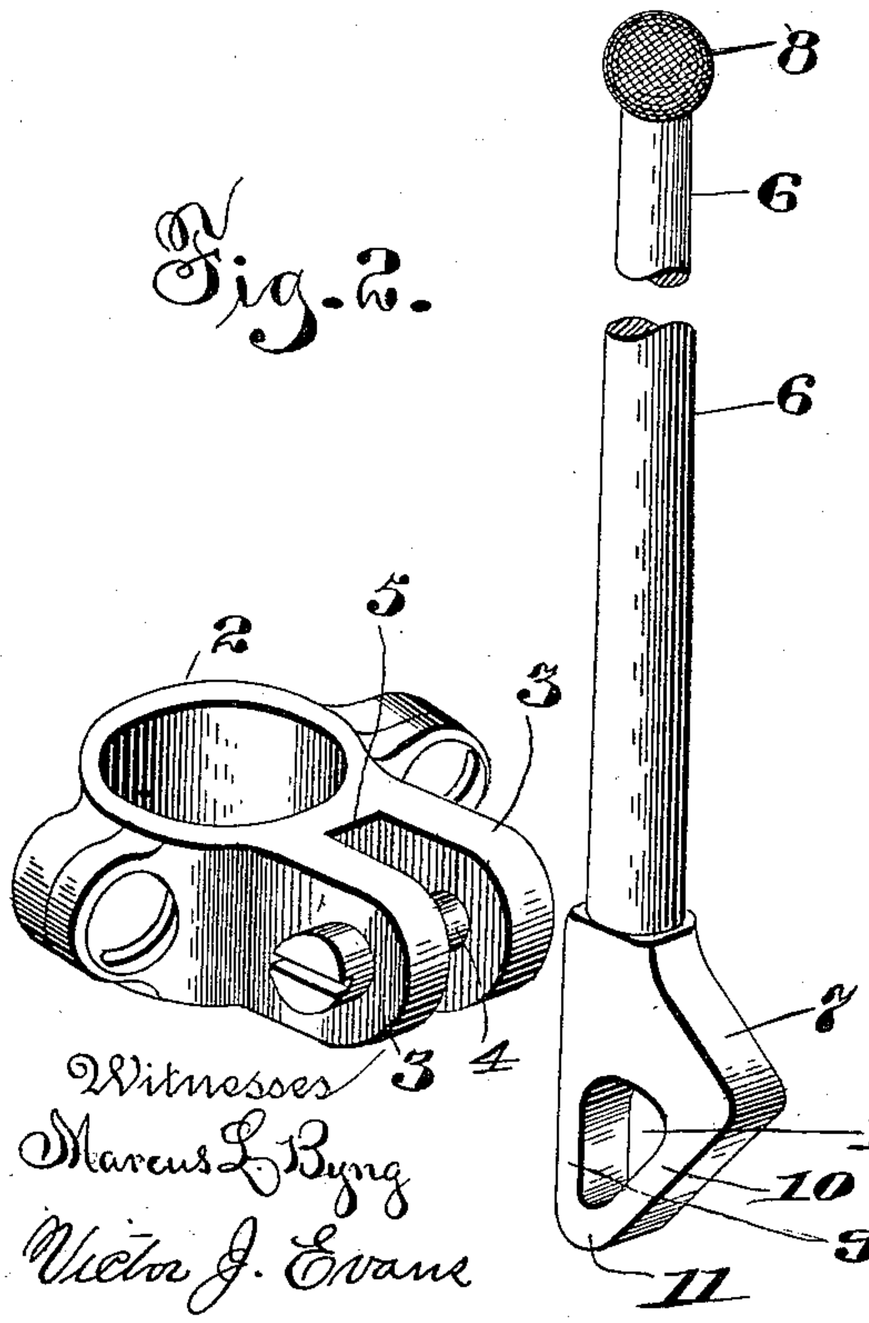
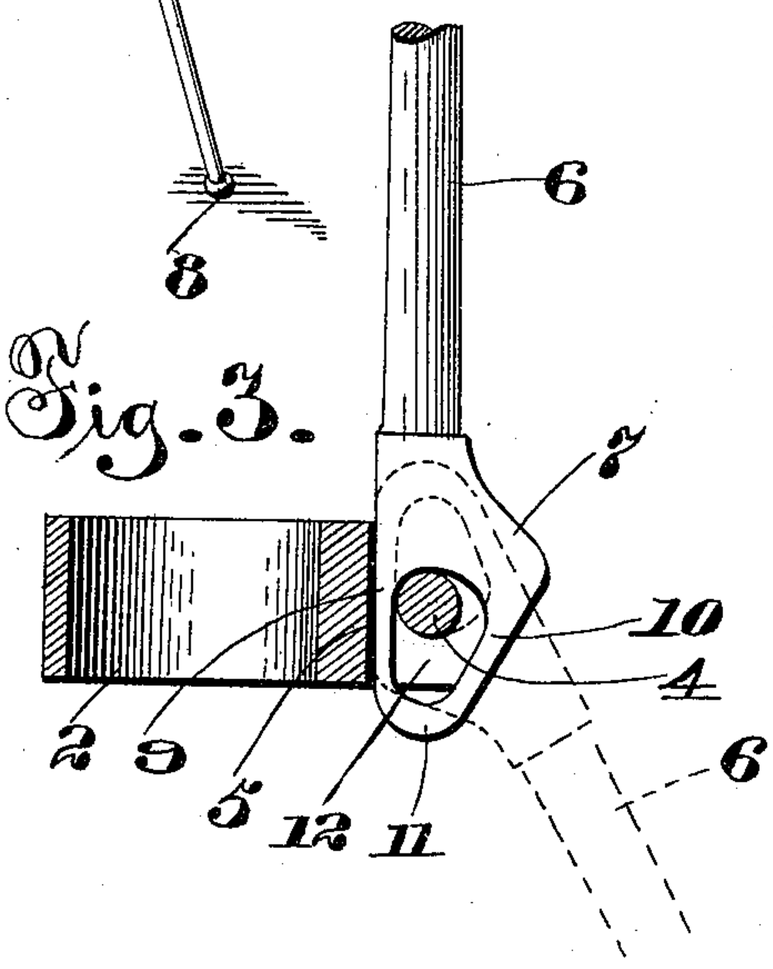


Fig. 3.



Witnesses
Marcus L. Byng
Victor J. Evans

Inventors
Samuel Welch and
Henry A. Burkhart
by John Wedderburn
Attorney

UNITED STATES PATENT OFFICE.

SAMUEL WELCH AND HENRY A. BURKHART, OF FITZGERALD, GEORGIA,
ASSIGNORS TO WILLIAM A. MORGAN, OF DODGE COUNTY, GEORGIA.

BICYCLE-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 607,779, dated July 19, 1898.

Application filed August 11, 1897. Serial No. 647,906. (No model.)

To all whom it may concern:

Be it known that we, SAMUEL WELCH and HENRY A. BURKHART, of Fitzgerald, in the county of Irwin and State of Georgia, have invented certain new and useful Improvements in Portable Automatic Bicycle-Supports; and we do hereby 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.

This invention relates to a portable automatic bicycle-support adapted to furnish a substantial support for a bicycle immediately upon dismounting under all conditions, level or inclined surface of road or sidewalk, pavement, or floor; and it consists, essentially, of a lever which is extended from a portion of a bicycle-frame when in use and inverted and arranged parallel with the part of the machine to which it is attached when not in use.

The invention further consists of the details of construction and arrangements of the several parts, which will be hereinafter more fully described and claimed.

The object of the invention is to provide a device of the character specified which is portable and simple in its construction, easily applied, rapid in its operation, automatic in its action, and compensates for any inequalities that may be formed therein by wear.

In the accompanying drawings, Figure 1 is a perspective view of a portion of a bicycle-frame having the improved support applied thereto in operative position and folded in dotted lines. Fig. 2 is a detail perspective view of the support shown detached and the clamp used in connection therewith. Fig. 3 is a detail section of the improved device.

Referring to the drawings, wherein similar numerals of reference are employed to indicate corresponding parts in the views, the numeral 1 designates the tubular post or upright which supports the saddle, and thereto is fixed a clamp 2, comprising opposite sections with flanges secured to each other in the ordinary manner. One of the said sections of the clamp has projected from the outer face thereof a pair of oppositely-disposed ears or lugs 3, which are spaced apart, and extending through the same and the space between them is a pin 4, which stands away from a vertical wall 5 in rear of said pin.

The support proper consists of an elongated lever 6, which in the main is rounded and tapered toward the lower end, while at the opposite end it is provided with a deflected flat head 7. The lower tapering end of the lever is covered by a rubber cap 8 to prevent slipping of the said end when in contact with a surface upon which it rests. The head 7 is formed with opposite straight edges 9 and 10, which converge toward a rounded end 11, and near the said rounded end is an elongated slot 12, extending entirely through the said head and having curved end walls. The difference between the outermost curved wall of the slot 12 and the rounded end 11 is slightly less than the distance between the pin 4 and the vertical straight wall 5 of the clamp. The said head 7 is deflected, as shown by Fig. 3, and also widened at its base, so as to accommodate the arrangement thereof in a proper angle when in supporting position and also to permit the lever to be folded upwardly against the part which supports it when not in use.

In assembling the parts of the device the pin 4 is passed through the slot 12, and the lever is thereby continuously held in connection with the clamp until released by the removal of said pin. In arranging the parts in connection with the frame of the bicycle the support is positioned on the left side, because dismounts are usually made on that side. The clamp is secured to the tubular base 1, and the lever 6 is brought down to its lowest bearing at right angles to the frame to allow it to come in contact with the floor or other surface. The frame of the machine is then inclined at about an angle of fifteen degrees, and this will position the parts at the proper point to secure the clamp to the post by means of the securing device of said clamp. If the bicycle is released, the lever will slide the full bearing automatically and securely hold the wheel, regardless of the lateral movement of the machine. In order to arrange the lever in folded position, the bicycle is brought to a perpendicular position and the lever 6 will drop automatically until arrested by contact with the pin 4 of the clamp or until the upper end of the slot bears upon the said pin, allowing the lever to be turned on the said pin, owing to the short distance between the upper curved end wall of the slot and the curved

end of the head 7 being less than the distance from the pin 4 to the adjacent straight wall 5 between the ears 3. The lever is then inverted and brought up adjacent to the post 1, and when released it will drop on the pin 4, and the latter will bear against the lower wall of the slot 12 until arrested by the arrangement of the edge 10 of the head, which bears closely against the straight wall 5 between the ears 3 and securely holds the lever in a position parallel with the tubing and entirely without interference with the manipulation of the bicycle.

In arranging the lever for supporting purposes it is lifted in the clamp, until the curved wall of the slot 12 opposite to that which has been raised upon the pin 4 is brought to bear against said pin 1, when said lever can be turned for reasons before explained and thrown over to depend in a vertical position from the frame. The machine is then tilted to one side until the reduced end of the lever engages the surface upon which it is to rest, and this inclination will be sustained by the obliquity of the edge 9 of the head 7.

Thus it will be seen that by a simple operation the support may be thrown into or out of operative position and that springs and other devices easily broken are dispensed with and a positive connection attained. The parts of the support, including the clamp, may be suitably ornamented or plated, and it is obviously apparent that many minor changes in the details of construction and arrangement of the several parts may be made and substituted for those shown and described without in the least departing from the nature or scope of the invention.

Having thus described the invention, what is claimed as new is—

A bicycle-support comprising a clamp having a pair of laterally-projecting ears with an inner vertical wall, a pin connecting said ears and a lever pivotally supported in the said ears and having a triangular head with oppositely-situated angular and straight edges adapted to contact with the vertical wall between the ears to hold the lever in a supporting and an elevated position respectively, the head being provided with a triangular slot to receive said pin, substantially as and for the purpose specified.

In testimony whereof we have signed this specification in the presence of two subscribing witnesses.

SAMUEL WELCH.
H. A. BURKHART.

Witnesses:
JAS. H. SHANKLIN,
JOHN W. HOWDER.