(No Model.)

R. C. WHAYNE.

ADJUSTABLE BICYCLE HANDLE.

No. 525,171. Patented Aug. 28, 1894.

FIG. 1.

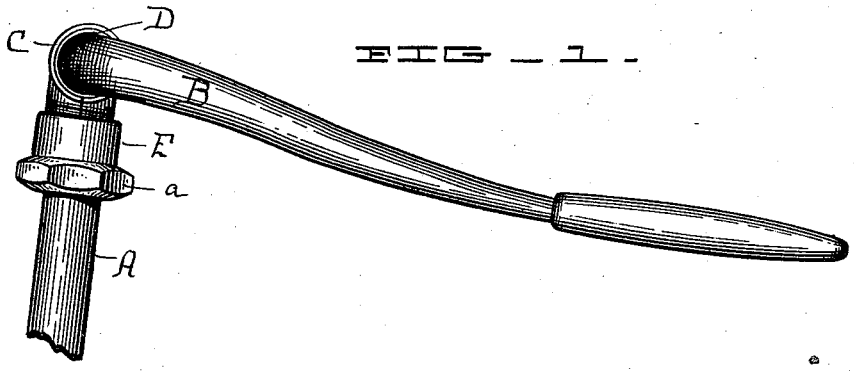


FIG. 2.

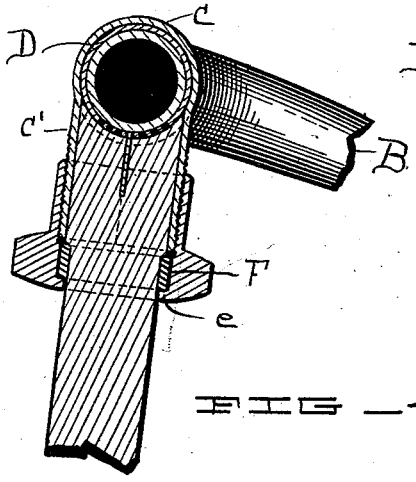


FIG. 3.

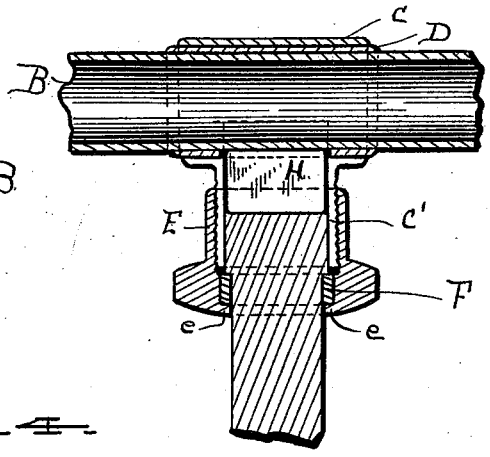
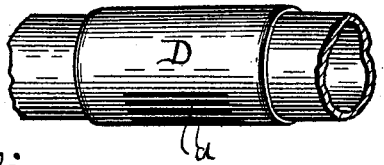


FIG. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

ROBERT C. WHAYNE, OF LOUISVILLE, KENTUCKY.

ADJUSTABLE BICYCLE-HANDLE.

SPECIFICATION forming part of Letters Patent No. 525,171, dated August 28, 1894.

Application filed December 22, 1893. Serial No. 494,398. (No model.)

To all whom it may concern:

Be it known that I, ROBERT C. WHAYNE, of Louisville, in the county of Jefferson and State of Kentucky, have invented new and useful Improvements in Adjustable Bicycle-Handles, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to improvements in bicycles, and particularly to adjusting means whereby the handle bar thereof may be adjusted in its elevation to suit the convenience of the rider, and is composed of the several features of construction and operation of parts, all as hereinafter more fully set forth and particularly pointed out in the claims.

In the annexed drawings similar letters of reference denote corresponding parts in all the views, in which—

Figure 1 is a side view showing the upper end of the forward standard of a bicycle frame. Fig. 2 is a vertical sectional view of the same somewhat enlarged, and Fig. 3 is a vertical section taken at right angles to the view in Fig. 2, while Fig. 4 is an enlarged detached view of a portion of the handle-bar with its slotted collar fitted thereto.

Referring to the drawings —A— is the front standard, to the upper portion of which is secured the handle-bar-loop —C— within which the handle-bar —B— is held. The handle bar —B— is revoluble within the loop —C—, and is provided with the collar —D— which latter is provided with the longitudinal slots —*d*— cut into, or through, said collar, and may be provided only on a portion of the circumference of said collar or they may be cut entirely around the circumference thereof according to the degree of adjustment of the handle bar desired. Either formed integral with, or secured to the standard —A— is a collar, or shouldered portion —F— which may extend entirely around the circumference of the standard or consists merely of lugs cast or formed on the outer face of said standard.

The upper end of the standard is provided with a tongue or projection —H— which extends beyond the central line of said standard a sufficient degree to cause it to impinge against the handle-bar within the horizontal portion of the loop —C—, or to enter the slots —*d*— of the collar —D— previously referred to. When desired the collar —D— may be dispensed with and a roughened face provided on the bar —B— and in that case impingement of the tongue —H— will answer the required purpose, but it is desirable that the slotted collar —D— be used as better security is thus afforded against slipping. The upper end of the standard —A— is concave in cross section so as to conform to the contour of the rounded handle-bar.

The lower portion or stem of the T-shaped loop —C— is screw-threaded for a portion of its length, and a collar —E— is provided which is movable on the upper portion of the standard, and is provided with inner annular shoulder —*e*— formed so as to provide an abutment to rest under the shoulder —F— on the said standard, and when the said collar —E— is screwed into its point of greatest elevation it firmly grasps the lower screw-threaded portion of the loop —C— and is held by the annular shoulder —*e*— against the corresponding shoulder —F— so that any movement of said collar —E— toward screwing up on said stem of loop —C— will cause said loop —C— to draw down and carry with it the handle-bar —B— thus forcing the tongue —H— to impinge against the said handle bar or enter one of the slots —*d*— cut in the collar —D— and thus hold the said handle-bar firmly locked in any predetermined position in which it may have been set by the operator. It will be noted that the collar —E— with its inner annular shoulder acting in conjunction with the shoulder or shoulders —F— on the standard —A— acts as a lock which will hold the parts in position as may be desired, and will hold said parts firmly enough to prevent rattling or accidental displacement. A shouldered nut —*a*— or equivalent device may be provided so as to enable the operator to firmly grasp the collar —E— to turn the same when desired, but the form of the grasping portion is immaterial, and may be varied to suit the manufacturer. It will also be apparent that the collar —E— may be made to embrace an enlarged portion of the standard, the enlargement commencing at the point where

the shoulder —F— is shown, and the whole standard thus made in a single piece without the addition of the collar —F— as shown, the essential feature being a shoulder against which the annular inner shoulder —*e*— may abut to draw the operative parts together to cause the tongue —H— to perform its function in holding the bar —B— in its set position.

The operation of my invention is as follows: The handle-bar being provided with the roughened face or collar —D— at the point where it is embraced by the loop —C—, is inserted in said loop; handle-bar is set in the desired position, and the screw-threaded collar —E— is screwed onto the lower stem of the loop —C— and drawn up thereon sufficiently far to cause the tongue —H— to enter the slots —*d*— in the collar —D— and the parts will be locked in position, from which they may be released by unscrewing the said collar —E— so as to release said tongue from its engagement and the handle bar may be shifted at will, where it may be again secured by screwing up said collar —E—.

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

1. In a bicycle, a rigid standard, a tongue extending therefrom, a longitudinally movable handle-bar-loop, a revoluble handle-bar therein, a slotted collar embracing said handle-bar within said loop, and a lock on the standard adapted to hold said bar-loop in its normal position, substantially as shown and described.

2. In a bicycle, a rigid standard, a tongue extending therefrom, a longitudinally movable handle-bar-loop thereon, a handle-bar revoluble within said loop a slotted collar on said handle-bar, a fixed shoulder on the standard, a screw-threaded collar embracing said standard and the stem of said bar-loop, and an annular shoulder within said collar, all combined substantially as specified.

3. In a bicycle, a T-shaped bar-loop with its stem movable on the upper end of the bicycle standard, a rigid projection from said standard within said bar-loop, a handle-bar revoluble within said bar-loop, a collar on said handle bar provided with one or more depressions coinciding with said rigid projections on the standard, and a locking device adapted to interlock with said bar-loop to hold it in its normal position, substantially as specified.

In testimony whereof I have hereunto signed my name, in the presence of two attesting witnesses, at Louisville, in the county of Jefferson, in the State of Kentucky, this 18th day of December, 1893.

ROBERT C. WHAYNE.

Witnesses:
FREDERICK H. GIBBS,
LILLY ANNA ISRAEL.