

UNITED STATES PATENT OFFICE.

ALBERT H. FIELD, OF PROVIDENCE, RHODE ISLAND.

HANDLE-BAR EXTENSION.

SPECIFICATION forming part of Letters Patent No. 671,647, dated April 9, 1901.

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To all whom it may concern:

Be it known that I, ALBERT H. FIELD, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented a new and useful Handle-Bar Extension, of which the following is a specification.

My invention relates to handle-bars for bicycles, and more particularly to an extension for the same; and it has for its object to produce a device of this kind which may be adjustably secured in the usual handle-bar socket and is provided with means for securing the handle-bar to the outer end thereof in such position that the handle-bar can be adjusted in any position which the rider may wish to assume.

With this object in view my invention consists in the improved construction and arrangement of an extension for handle-bars, as will be hereinafter more fully set forth.

In the accompanying drawings, in which the same reference-numerals indicate corresponding parts in each of the views in which they occur, Figure 1 represents the head of a bicycle with my extension secured thereto and the ordinary curved handle secured to the extension, the handle being shown in one position in full lines and in other positions in dotted lines. Fig. 2 is a perspective view of one form of my extension. Fig. 3 is a similar view of a slightly-different form, showing the means for securing it in position; and Figs. 4 and 5 are perspective views of another form of the extension.

Referring more particularly to the drawings, 1 indicates the head of an ordinary bicycle, which may be of any usual construction and provided with means for securing the handle-bar thereto. The head is provided with the usual handle-bar stem 2, with a ring or collar 3 at its upper end.

In the drawings I have shown the ring 3 secured in position by means of a clamp 3', which is adapted to be secured around the stem by means of a bolt 2'; but it is evident that the ring could be secured in any other way without affecting my invention.

My improvement consists of a bar 4, one end of which is provided with a head 5, adapted to be secured within the ring or collar, and the other end is provided with an adjustable

opening 6, preferably formed by slotting one side, as shown at 7, and passing a bolt 8 through the perforated lips 9 upon opposite sides of the slot. The bar may be of any suitable size and area in cross-section, either angular or curved. The head 5 is preferably secured to the bar by means of a neck 10, which is curved to such an extent as to cause the center of the head to lie substantially in a line with the center of the bar. If desired, the head may be made expansible by recessing one end, as shown by dotted lines 11 in Fig. 4, and slotting the walls, as shown at 12. A tapering plug 13 is located within the recessed portion of the head and is adapted to be drawn thereinto, so as to expand the slotted walls, by means of a bolt 14.

Instead of forming the bar of a single straight piece of material, as above described, it may be formed from two pieces 15 and 16, as shown in Figs. 4 and 5. In this construction one end of the bar is provided with the slotted opening in the same manner as heretofore described for the reception of the handle-bar; but the opposite end of one of the pieces 15 is provided with a recessed and slotted head 17, into which a conical plug or head 18 is adapted to be drawn by means of the bolt 19. The piece 16 is pivotally secured to the intermediate portion of the piece 15 by means of a screw or pivot 20, the piece 15 being recessed or halved, as shown at 21, for the reception of the pivotal end of the piece 16. The pieces 15 and 16 are preferably flat and are each given a quarter-turn, as shown at 22, to cause the axes of the heads 17 and 18 to stand at right angles when in their closed position to the pivot 20.

By providing a bicycle with my improvement as above described it is evident that it can be readily secured to the handle-bar stem with the ends of the handles projecting above or below the point of attachment by simply inserting the head 5 into the collar 3 from one side or the other. After the extension has been secured to the handle-bar stem it can be moved into any desired position, as shown in Fig. 1, with its point of attachment as a center. The handle-bar is adjustably secured at the outer end of the extension, so that the inclination of the handles may be varied to suit the adjustment of the extension.

sion and the convenience of the rider. The same result can be secured by the form of extension shown in Figs. 4 and 5, the only difference being in the latter form being separable and insertible into the collar of the handle-bar stem from opposite sides, where they are rigidly secured by means of a bolt therein.

If at any time it should be desired to dispense with the extension, it can be quickly removed from the stem, and the handles can be removed from its outer end and secured to the stem in the usual manner. When constructed and combined in this manner, it is evident that the handle-bars can be quickly secured in any position to accommodate the position which the rider may desire to assume. The extension can be manufactured very cheaply and of sufficient strength to answer all purposes without materially increasing the weight of the machine.

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

1. As a new article of manufacture, a handle-bar extension for bicycles consisting of a

bar, one end of which is bent laterally and provided with a head at right angles to the bar, the center of the head being substantially in a line with the center of the bar, and the other end is provided with an expansible opening at right angles to the bar and parallel with the head, the head being provided with means for adjustably and movably securing it to the fork of a bicycle and the walls of the opening being provided with means for varying the size of the opening for the reception of the handles, substantially as described.

2. In a handle-bar extension for bicycles, the combination, with a bar, one end of which is provided with a recessed and slotted head at right angles to the main portion and the other end is provided with a slotted opening, of an expanding-plug in the head, a bolt through the head and the plug, and a bolt through the slotted portion of the opening, substantially as described.

ALBERT H. FIELD.

Witnesses:

CHAS. E. BROCK,
CLARENCE SHAW.