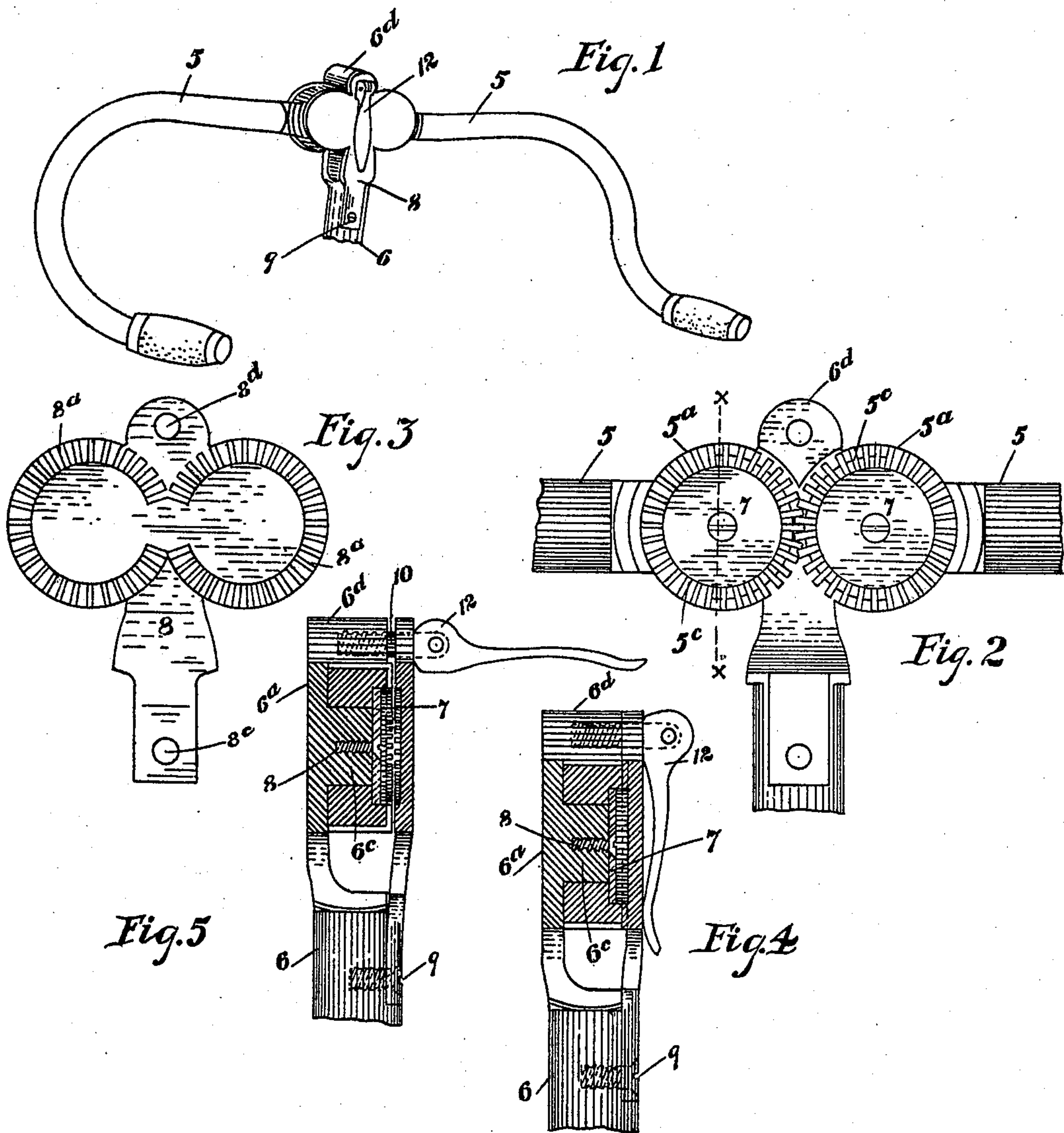


(No Model.)

A. V. GREEN.  
ADJUSTABLE HANDLE BAR FOR BICYCLES.

No. 581,255.

Patented Apr. 20, 1897.



Witnesses  
Thomas A. Green, Jr.  
Edith Himsworth.

Amos V. Green.  
Inventor

By his Attorney *Ap[?] B[?]*



# UNITED STATES PATENT OFFICE.

AMOS V. GREEN, OF DENVER, COLORADO, ASSIGNOR OF ONE-HALF TO JOHN G. MORGAN AND LYMAN B. H. BROWN, OF SAME PLACE.

## ADJUSTABLE HANDLE-BAR FOR BICYCLES.

SPECIFICATION forming part of Letters Patent No. 581,255, dated April 20, 1897.

Application filed October 15, 1896. Serial No. 608,944. (No model.)

*To all whom it may concern:*

Be it known that I, AMOS V. GREEN, a citizen of the United States of America, residing at Denver, in the county of Arapahoe and State of Colorado, have invented certain new and useful Improvements in Adjustable Handle-Bars for Bicycles; and I do 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in adjustable handle-bars for bicycles; and it consists of the features hereinafter described and claimed, all of which will be fully understood by reference to the accompanying drawings, in which is illustrated an embodiment thereof.

In the drawings, Figure 1 is a perspective view of a handle-bar provided with my improvements. Fig. 2 is a front view of the mechanism, the spring locking-plate being removed. Fig. 3 is an inside view of the locking-plate. Fig. 4 is a section taken on the line *x x*, Fig. 2, the spring-plate being shown in the locking position. Fig. 5 is a similar view, the spring-plate being released.

Similar reference-characters indicating corresponding parts in these views, let the numeral 5 designate each of two distinct handle-bars whose adjacent extremities 5<sup>a</sup> are cogged or toothed and adapted to mesh with each other. Hence the movement of one bar upward or downward imparts a corresponding movement to the other bar, the two bars being simultaneously and correspondingly adjusted. Each bar extremity 5<sup>a</sup> is apertured to engage a cylindrical projection 6<sup>c</sup>, formed on the back plate 6<sup>a</sup>, the latter being formed integral with a depending stem 6, adapted to be clamped to the post of the front fork (not shown) in any suitable manner. Each bar 5<sup>a</sup> is recessed to receive a disk 7, which is held in place by a screw 8, passed through an aperture in the disk and entering a threaded aperture formed in the projection 6<sup>c</sup>. These disks 7 hold the bar extremities securely in place when the locking-plate is released, as shown in Fig. 5.

Each bar extremity 5<sup>a</sup> is toothed or notched on its front face, as shown at 5<sup>c</sup>, to engage counterpart teeth or projections 8<sup>a</sup>, formed on the spring-plate 8, whose lower extremity is provided with an aperture 8<sup>c</sup> to receive a screw 9 or other suitable fastening device. The upper extremity of the locking-plate is provided with an aperture 8<sup>d</sup>, which engages the unthreaded part of a screw 10, inserted in a coinciding threaded aperture formed in a projection 6<sup>d</sup>, formed integral with the upper extremity of the back plate 6<sup>a</sup>. To the outer extremity or head of the screw, which projects beyond the spring-plate 8, is pivoted an eccentric cam 12. When the cam is in the position shown in Fig. 5, the plate springs outward and unlocks the cogged or toothed extremities of the handle-bars, leaving them free for adjustment. They may then be raised or lowered at will. When properly adjusted, the cam is thrown to the position shown in Fig. 4. This movement of the cam forces the plate 8 inward, causing its teeth or projections 8<sup>a</sup> to engage with the crown-teeth or projections 5<sup>c</sup>, formed on the meshing handle-bar extremities, thus locking the handle-bars against rotation until the position of the cam is changed.

It will be observed that the adjustment can be quickly and easily made by the rider without stopping.

Having thus described my invention, what I claim is—

1. The combination of two distinct handle-bars having their adjacent extremities correspondingly cogged or toothed and provided with apertures, the back plate formed integral with or attached to the depending stem and having cylindrical projections engaging the extremities in the meshing handle-bar extremities, means for holding the handle-bar extremities in operative position, and means for locking the said handle-bar extremities against rotation, comprising a spring-plate normally disengaged from the handle-bar extremities, and means for forcing said plate to locking engagement with the said extremities.

2. The combination of two distinct handle-bars having their adjacent extremities correspondingly toothed or cogged, the back plate upon which the said handle-bar extremities are pivotally mounted, means for holding the



handle-bar extremities in operative relation on said plate, the said handle-bar extremities being provided with crown-teeth on their front face, the spring locking-plate having  
5 its lower extremity secured to the depending stem, said plate having teeth engaging the crown-teeth on the extremities of the handle-bars, and suitable means for forcing the spring locking-plate to locking engagement  
10 with the handle-bar extremities.

3. The combination of the two distinct handle-bars having their adjacent extremities correspondingly cogged or toothed, the depending stem having a back plate formed integral with or attached thereto, the handle-  
15 bar extremities being pivotally mounted on said plate, a spring locking-plate attached to

the depending stem and normally disengaged from the meshing handle-bar extremities, and means for forcing said plate to locking  
20 engagement with the handle-bar extremities, said means comprising a screw passed through an aperture in the upper part of the spring-plate, and entering a threaded aperture formed in a projection formed on the back  
25 plate, and an eccentric cam hinged to the outer extremity of the screw and adapted to engage the spring-plate.

In testimony whereof I affix my signature in presence of two witnesses.

AMOS V. GREEN.

Witnesses:

ALFRED J. O'BRIEN,  
EDITH HIMSWORTH.