

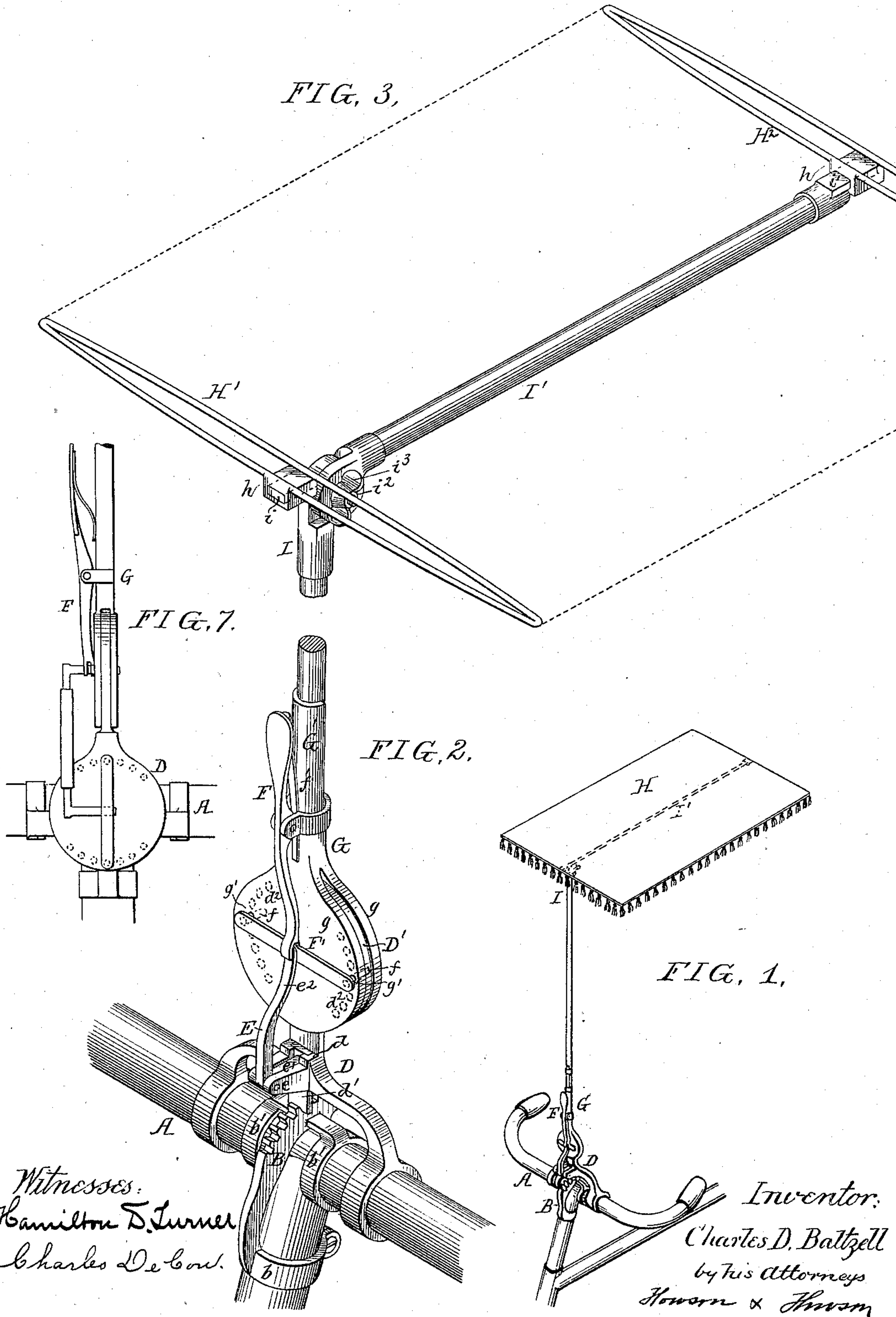
(No Model.)

2 Sheets—Sheet 1.

C. D. BALTZELL.
SHADE HOLDER FOR BICYCLES.

No. 590,125.

Patented Sept. 14, 1897.



Witnesses:
Hamilton D. Turner
Charles De Cou.

Inventor:
Charles D. Baltzell
by his Attorneys
Howson & Howson

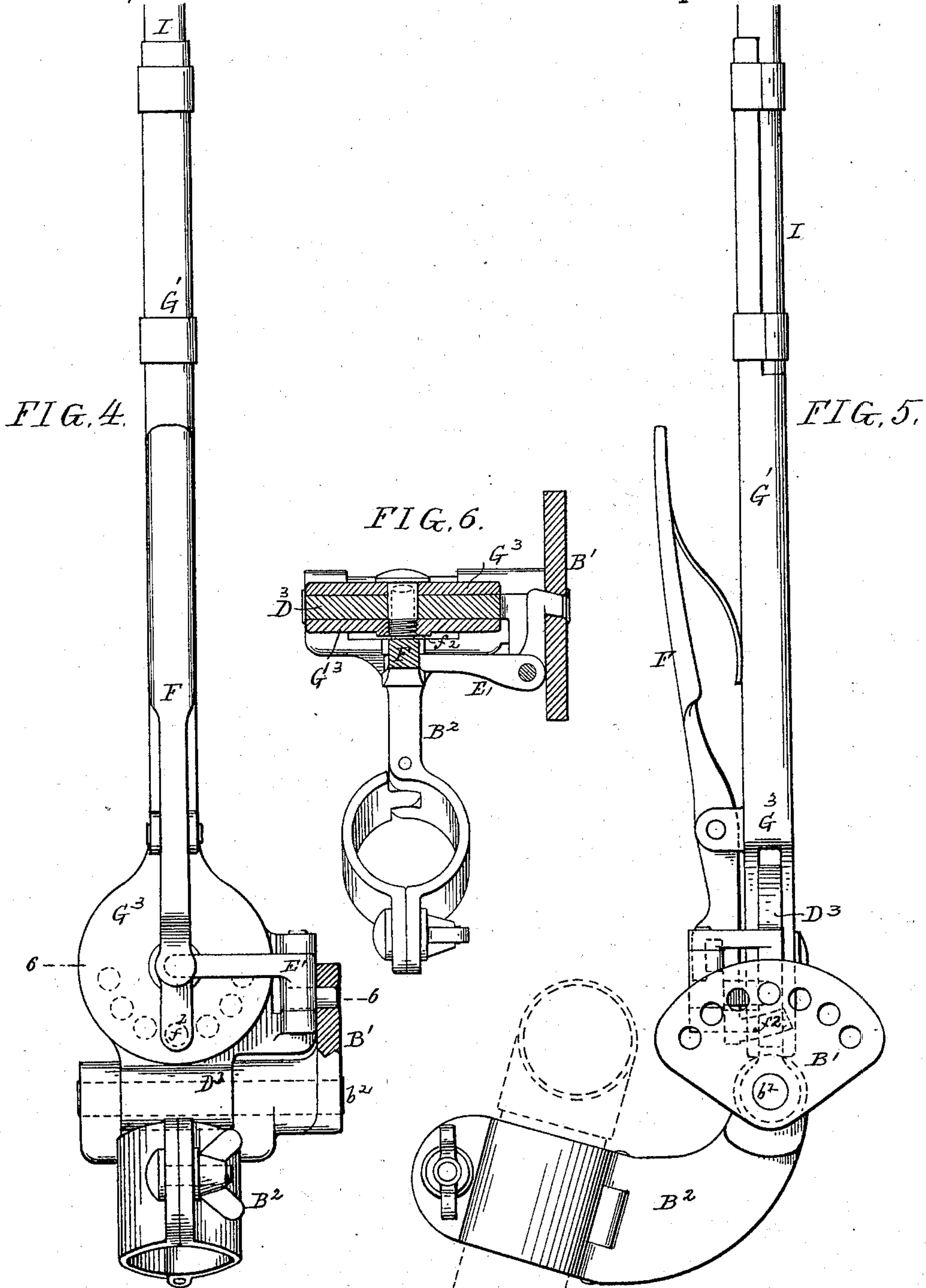
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UNITED STATES PATENT OFFICE.

CHARLES D. BALTZELL, OF ST. DAVIDS, PENNSYLVANIA.

SHADE-HOLDER FOR BICYCLES.

SPECIFICATION forming part of Letters Patent No. 590,125, dated September 14, 1897.

Application filed February 9, 1897. Serial No. 622,617. (No model.)

To all whom it may concern:

Be it known that I, CHARLES D. BALTZELL, a citizen of the United States, and a resident of St. Davids, Pennsylvania, have invented certain Improvements in Shade-Holders for Bicycles, of which the following is a specification.

The object of my invention is to provide a shade for a bicycle which can be adjusted to any position by the rider while the bicycle is in motion. This object I attain in the following manner, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of my shade and holder secured to the handle-bar of a bicycle. Fig. 2 is a perspective view of the holder attached to the handle-bar. Fig. 3 is a perspective view of the frame of the shade. Fig. 4 is a front view showing my attachment slightly modified. Fig. 5 is a side view of Fig. 4. Fig. 6 is a section on the line 6 6, Fig. 4; and Fig. 7 is a view of a modification.

Fixed to the handle-bar A in the present instance is a toothed segment B, having a band b clamped to the post of the handle-bar, and band b' at each side of the post clamped to the arms of the handle-bar.

Swiveled on the arms of the handle-bar beyond the bands is a frame D, having a slide-way d, in which slides a bolt d', engaging with the toothed segment B. Pivoted to the frame D at e is a lever E, one arm e' of which engages with the sliding bolt d', while the other arm e² of the lever is acted upon by a lever F, which is grasped by the hand when the operator wishes to shift the shade.

The frame D has a projection D' in the form of a disk which has a series of perforations d² on each side, and pivoted to this disk is a frame G, having two disk-sections g g', one on each side of the disk D'. Adapted to openings g' in the disk-sections g g' are pins f, projecting from the cross-head F', coupled to or forming part of the lever F. These pins pass through the openings g' and d² of the disks and lock the disks together.

The spring f' tends to keep the pins in the openings in the disks and also the pawl in engagement with the teeth of the segment, but when the lever F is operated to compress the spring the cross-head F' is moved away from the disk and the pins withdrawn from

the openings in the disk D', thus allowing the frame G to move on its pivot, at the same time withdrawing the pawl from engagement with the teeth of the segment B and allowing the frame D to move on its pivot, and as the shade is secured to the frame G it can be moved in any position by the hand that operates the lever, and as soon as the lever is released the pawl will engage with the segment and the pins f will enter the openings d² in the disk D', locking the shade-holder in the adjusted position.

It will be seen from the above that the rider of a bicycle can readily adjust the shade-holder in a few moments without dismounting or stopping the machine, so that a small shade can be used and can be adjusted to protect the rider from the direct rays of the sun.

While my invention can be used in connection with an ordinary parasol, I prefer to use a shade of the construction shown in the accompanying drawings. The shade H consists of the fabric strip and two light wire end frames H' H², secured to the fabric, the frames having sockets h h, to which are adapted projections i i'. The projection i is on the standard I and the projection i' is on the connecting-bar I'. The connecting-bar is connected to the standard by a bolt i², which is provided with a thumb-nut i³ in the present instance, and I preferably form the abutting surfaces each in the shape of a disk and I may serrate the surfaces of these disks, so that when the parts are adjusted they will be securely locked together.

The standard I is adapted to a socket G' in the frame G and is held securely in place by bands or clamps, so that when the shade is not desired it can be readily detached from the frame. The sections I I' can then be folded and the fabric and end sections to which the fabric is attached can be rolled into a small compass.

In Figs. 4, 5, and 6 I have shown a device which is complete in itself, being simply clamped to the upright post of the bicycle directly under the handle-bar. The frame B' has an extension B², provided with a hinged clamp-plate which can be secured to the post by the thumb-nut, and pivoted to this frame at b² is the swivel-frame D³, carrying a two-armed lever E'. One arm of this lever is in

the form of a bolt which engages with the segment on the frame B'. This segment in the present instance is perforated and the bolt enters any one of the perforations. Pivoted to the swivel-frame D³ is the shade-carrying frame G³, of somewhat the same construction as that shown in Fig. 2. The lever F, pivoted to the carrying-frame, has a bolt f² on one arm adapted to any one of the openings in the swivel-frame D³ and acts upon one arm of the lever E', so that when the carrying-frame is grasped by the hand of the bicyclist the lever is drawn toward the support and the two bolts are withdrawn, releasing the carrying and swivel frames, so that the shade can be adjusted to any position, and by releasing the lever the bolts will enter their respective openings and lock the shade in the desired position. In these figures I have shown a method of attaching the standard to the carrying-frame by two adjustable bands which are adapted to the socket in the upper end of the carrying-frame and which slip over the end of the standard, but other means of fastening may be used without departing from my invention.

In Fig. 7 I have shown two sets of disks, one arranged at right angles to the other. Each disk is provided with locking-pins actuated by a single lever F through the medium of connecting mechanism.

I claim as my invention—

1. The combination of the fixed section adapted to be secured to the frame of a bicycle, a frame movable in a vertical plane, a swiveled connection between said movable frame and the frame of the bicycle, means for securing the frame to the fixed section, a movable section carrying the shade and adapted to be secured to the frame and movable in a vertical plane at right angles to the movable frame, with means on the movable section for simultaneously releasing the movable section from the frame and the frame from the fixed sec-

tion so that it can be adjusted to any position by one hand of a rider and locked after adjustment, substantially as described.

2. The combination of a segment secured to the frame of a bicycle, the handle-bar, a swiveled frame D mounted on the handle-bar, a sliding bolt thereon engaging with the segment, said frame having a vertical disk-section, a shade-carrying frame pivoted to the disk-section, a bolt to lock the shade-carrying frame to the disk and a bolt locking the swiveled frame to the segment, an operating-lever therefor on the carrying-frame, so that the two parts will be simultaneously operated, substantially as described.

3. The combination of the toothed segment secured to the frame of a bicycle, the handle-bar, a swiveled frame D mounted on the handle-bar, a sliding bolt carried thereby engaging with the teeth of the segment, a carrying-frame pivoted to the swiveled frame and a shade carried thereby, a lever pivoted to the carrying-frame a bolt for locking the carrying-frame to the swiveled frame, said lever being connected to the two bolts so as to withdraw them simultaneously, substantially as described.

4. The combination in a shade-holder, of the shade having cross-bars, a standard having an extension adapted to a socket on one of the cross-bars of the shade a connecting-bar pivoted to the standard and having an extension adapted to a socket in the other cross-bar of the shade, with means for fastening the connecting-bar to the standard whereby the shade is held in its extended position, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES D. BALTZELL.

Witnesses:

WILL. A. BARR,
JOS. H. KLEIN.