

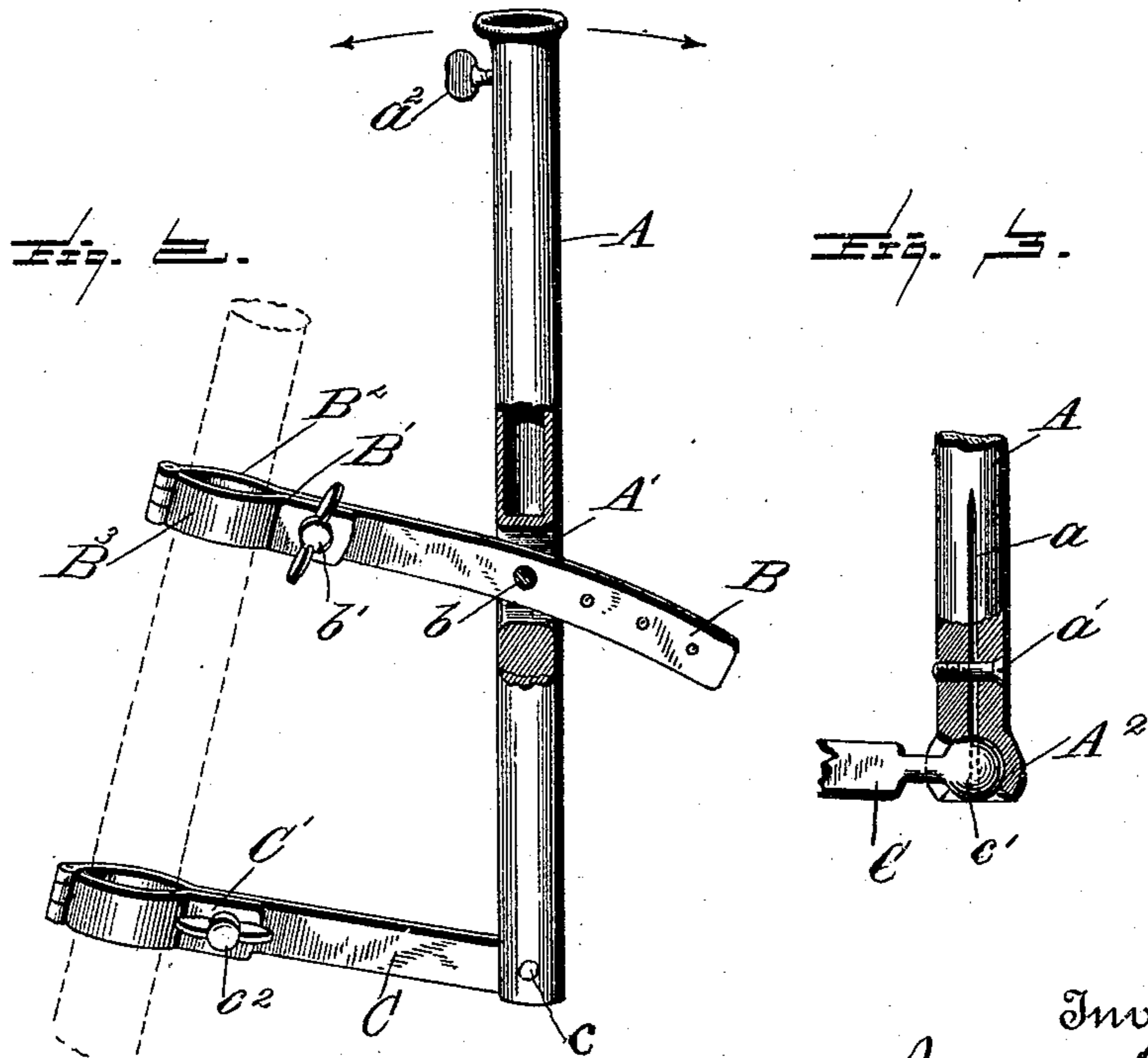
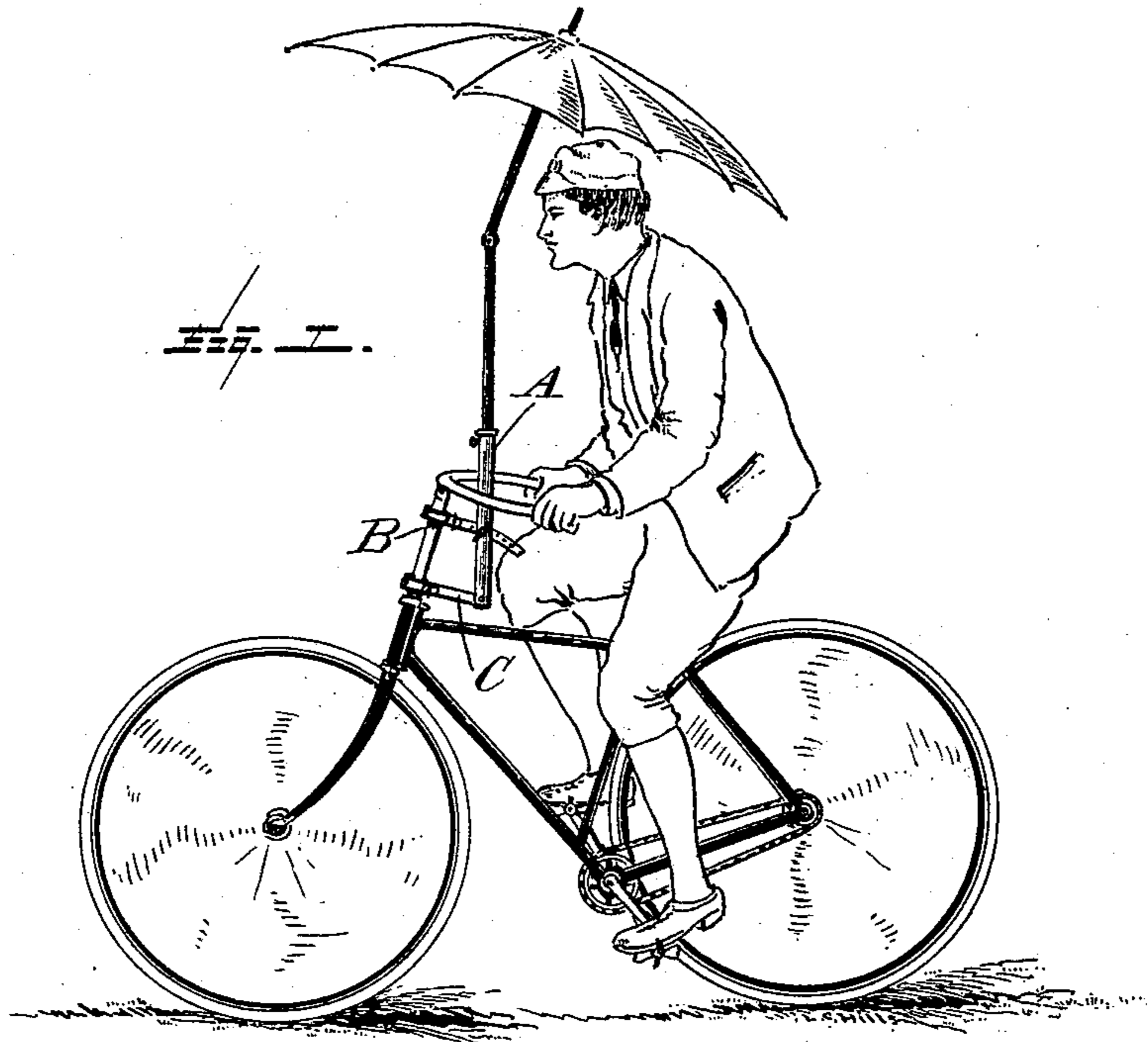
(No Model.)

J. DUGAN.

SUPPORT FOR UMBRELLAS, &c., ON BICYCLES, &c.

No. 488,549.

Patented Dec. 27, 1892.



Witnesses
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UNITED STATES PATENT OFFICE.

JAMES DUGAN, OF BRISTOL, PENNSYLVANIA.

SUPPORT FOR UMBRELLAS, &c., ON BICYCLES, &c.

SPECIFICATION forming part of Letters Patent No. 488,549, dated December 27, 1892.

Application filed July 16, 1892. Serial No. 440,250. (No model.)

To all whom it may concern:

Be it known that I, JAMES DUGAN, a citizen of the United States, residing at Bristol, in the county of Bucks and State of Pennsylvania, have invented certain new and useful Improvements in Devices for Supporting Umbrellas, Flags, &c., upon Bicycles and Similar Vehicles; and I 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.

My invention relates to certain new and useful improvements in devices for supporting umbrellas, flags, &c. upon bicycles and similar vehicles, and it has for its main object the provision of a device of this character which can be readily adjusted to support the umbrella-handle or flag-staff at any convenient angle without interfering with the rider, and which can be manufactured at a minimum cost.

Other objects and advantages of the invention will appear in the following description, and the novelty thereof will be particularly pointed out in the claims.

Referring to the drawings:—Figure 1 is a side elevation of my invention in operative position; Fig. 2 is a similar view on an enlarged scale, a portion of the device being broken away to show the construction; Fig. 3 is a detail view of a modification which will be hereinafter referred to.

Like letters of reference refer to like parts throughout the several views.

A is a standard the upper portion of which is formed from tubing (as shown in Fig. 2), the lower portion being a solid rod. Near its center this standard is slotted longitudinally as at A', for the reception of an adjusting arm or bar B; and said standard is also bored transversely through said slot for the reception of a binding screw b. The forward end of the arm B is provided with a hinged collar B', formed by slightly bending back the end of the bar, as shown at B², to conform to the shape of the steering-head of a bicycle or similar vehicle, and then hinging to the end of the bar a piece B³ similarly curved, a thumb-screw b'—working in registering apertures in the two parts—being employed to bind the collar B' against the steering-head and clamp

it firmly thereto. The arm B is preferably curved or arched slightly, the edges being arcs of concentric circles as shown, so that the standard A may be slid thereon and adjusted by the thumb-screw b at various angles and to many positions to meet the requirements of different riders.

To the lower end of the standard is hinged a supporting arm or bar C very similar to the adjusting arm B. This supporting arm, however, may be a straight piece of metal, and is hinged to the standard in any manner which will permit a free fore-and-aft movement of said standard. As shown in Fig. 2 the end of the standard is simply split, and the arm C held therein by a rivet c passed through the parts. In Fig. 3, however, is shown a modification in the form of a ball-and-socket joint. In this view the arm C is provided with a ball head c', and the lower end of the standard, split at a, is formed into a ball socket A², having flaring or beveled openings or walls in its bottom and side to admit the head c' and to permit free movement thereof. A set-screw a' is employed to hold together the divided ends of the standard when the ball head c' is in place, and also to compensate for wear in the joint. A hinged collar C' and thumb-screw c² are employed to clamp this arm to the steering-head as in the arm B.

The operation of my invention will be readily understood from the above description. By means of the collars B' and C', and the thumb-screw b' and c², the arms B and C are firmly clamped to the steering-head of the bicycle or other vehicle, preferably in the rear of the steering-head, as shown. The standard A is then adjusted, by sliding it either way upon the arm B (as shown by the arrows), until it is in position. The handle or staff of the umbrella, flag or other article to be borne upon the wheel is then inserted into the hollow part of the standard, and if desired may be held still more tightly in place by means of a binding-screw a². If the article to be supported is an umbrella I prefer to make use of one having a hinged handle, as shown in Fig. 1, so that by tilting the upper portion of the stick and turning the handle in the standard A the shade can be tilted in any direction to ward off rain, or the rays of the sun.

Having thus described my invention what

I claim and desire to secure by Letters Patent is:—

1. A device for supporting umbrellas, &c., upon bicycles and similar vehicles, said device
5 comprising a supporting and an adjusting arm each adapted to be secured independently to the frame of the vehicle and one above the other, and a standard hinged to said supporting arm and slidably adjustable upon said
10 adjusting arm, substantially as described.
2. A device for supporting umbrellas, &c., upon bicycles and similar vehicles, said device

comprising a supporting and an arched adjusting arm each adapted to be secured independently to the frame of the vehicle and one 15 above the other, and a standard hinged to said supporting arm and slidably adjustable upon said adjusting arm, substantially as described.

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

JAMES DUGAN.

Witnesses:

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