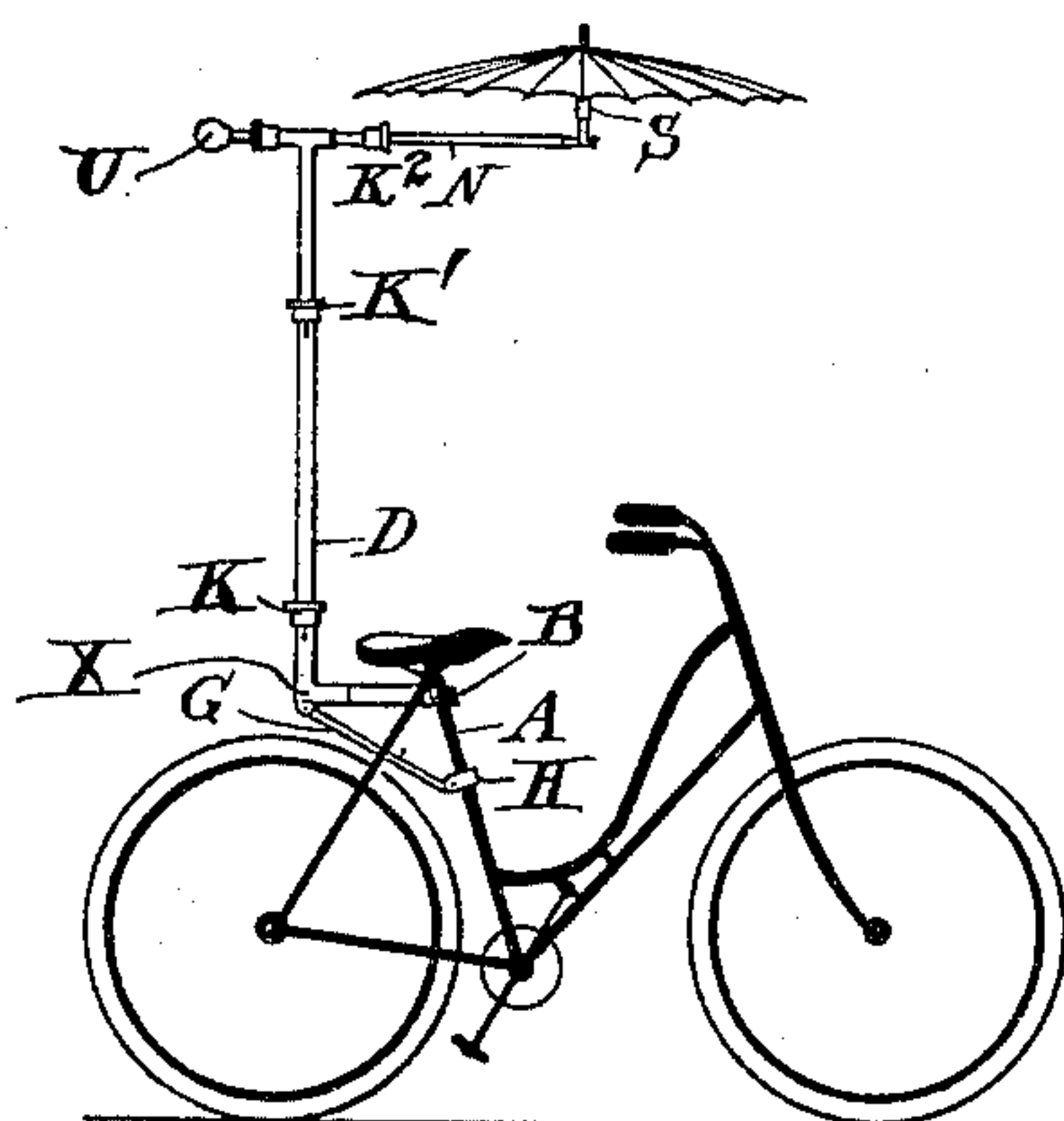
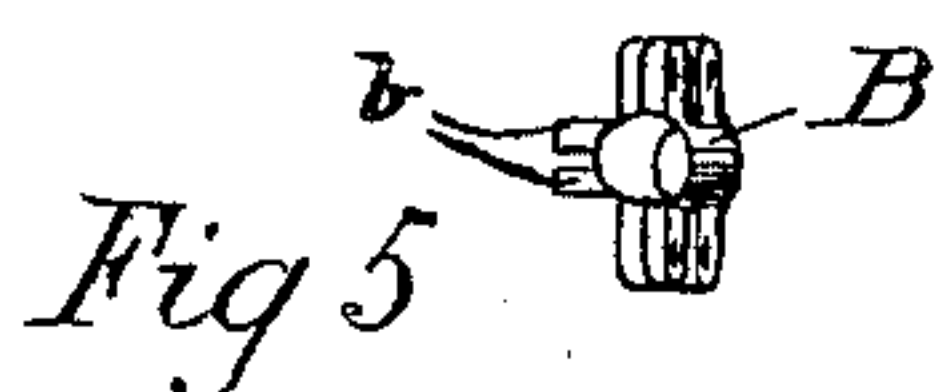
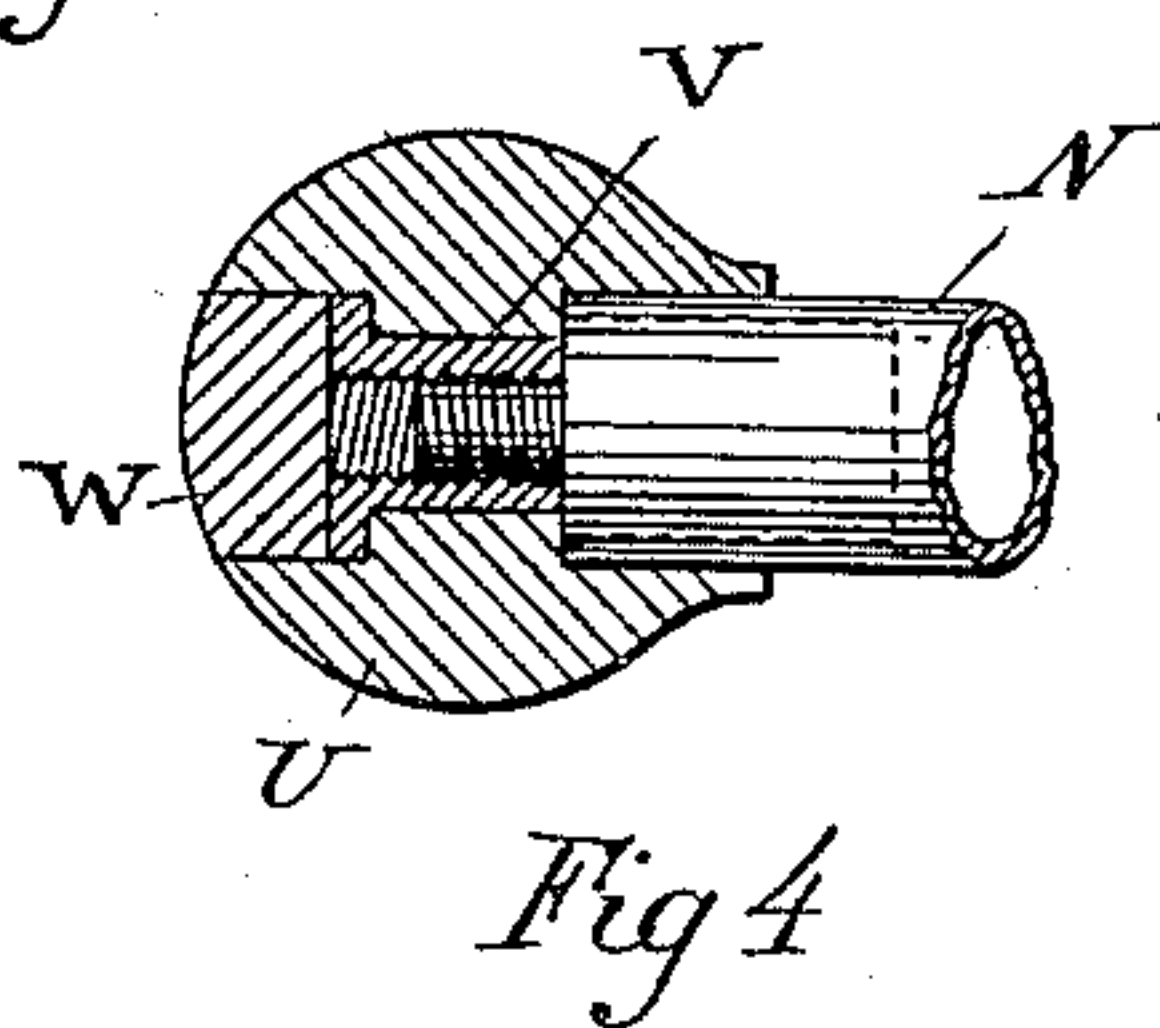
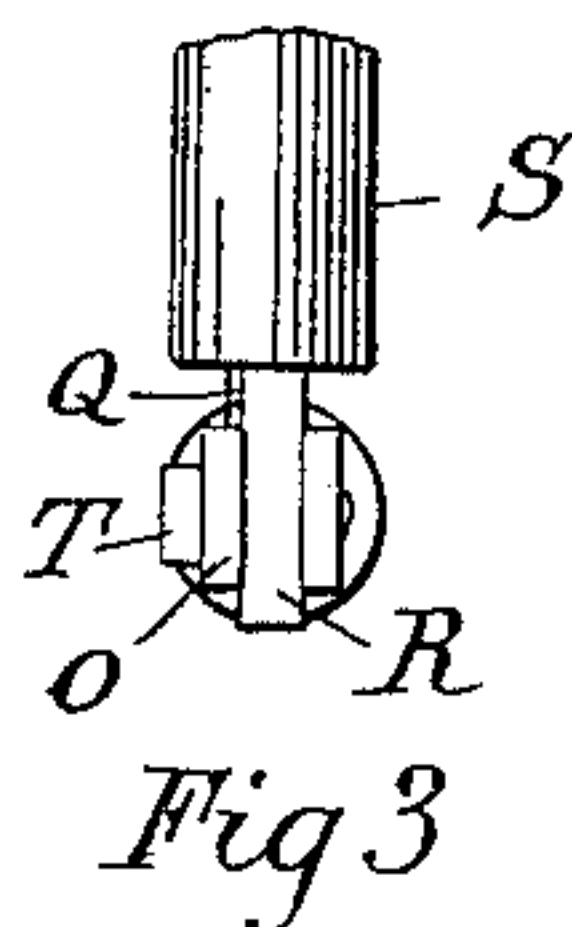
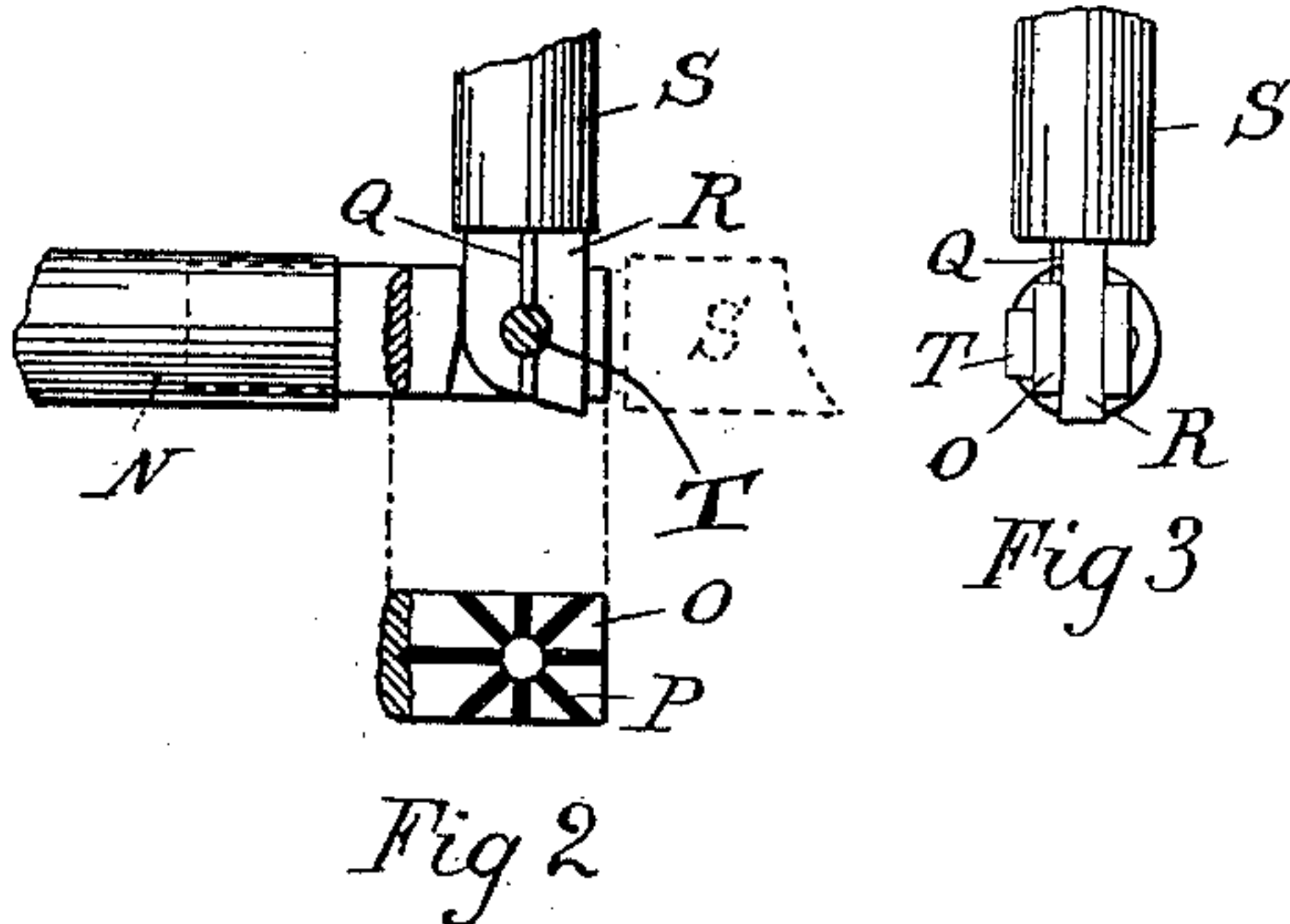
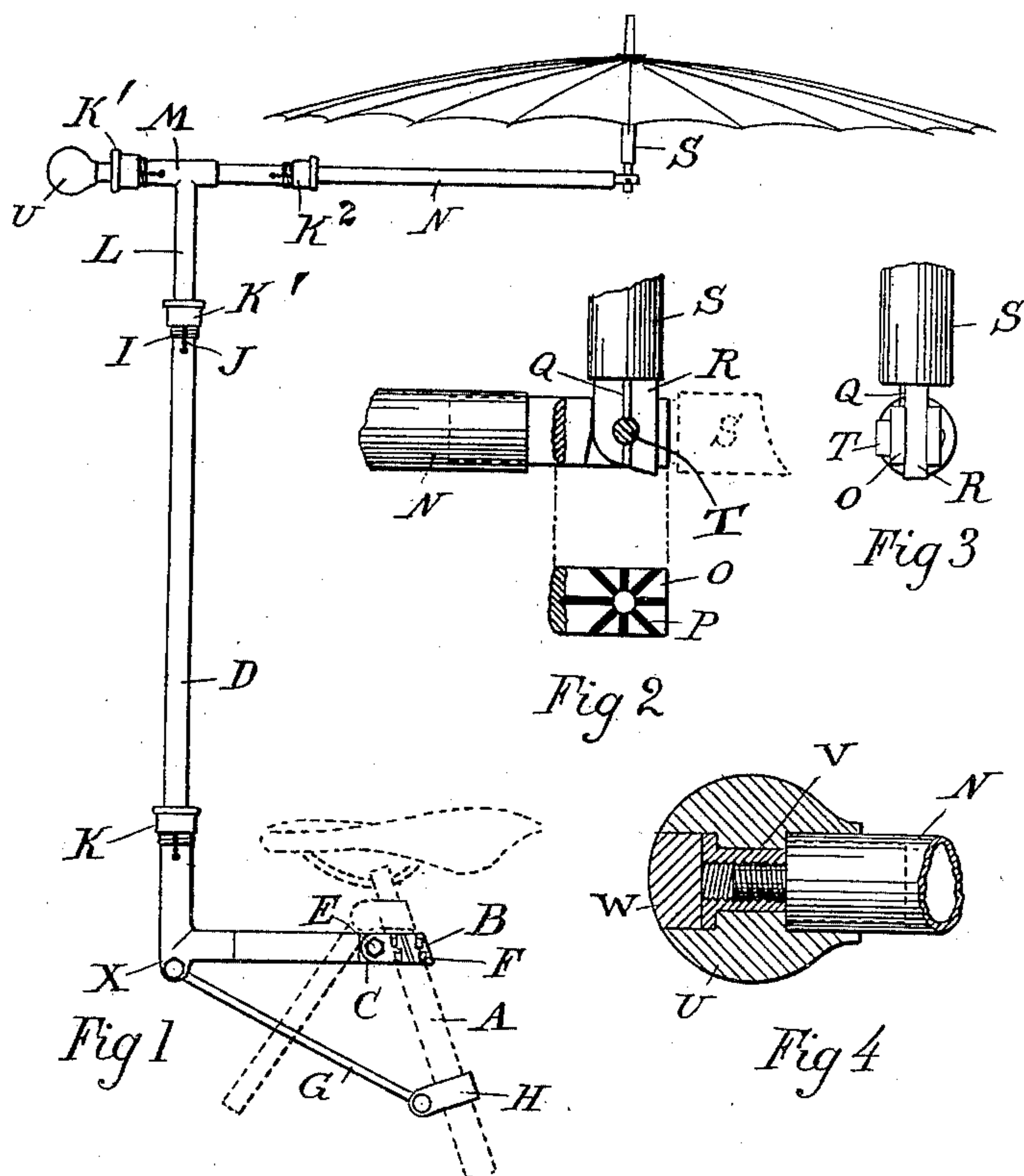


(No Model.)

A. T. WOODWARD.  
UMBRELLA HOLDER FOR CYCLES.

No. 604,674.

Patented May 24, 1898.



Witnesses:-  
S. P. Clift

Inventor:-  
Arthur Thomas Woodward  
by his Attys  
Mason Fenwick Hammer



# UNITED STATES PATENT OFFICE.

ARTHUR THOMAS WOODWARD, OF BENDIGO, VICTORIA.

## UMBRELLA-HOLDER FOR CYCLES.

SPECIFICATION forming part of Letters Patent No. 604,674, dated May 24, 1898.

Application filed December 1, 1896. Serial No. 614,125. (No model.)

*To all whom it may concern:*

Be it known that I, ARTHUR THOMAS WOODWARD, artist, a subject of the Queen of Great Britain and Ireland, and a resident of Waterloo place, in the city of Bendigo, county of Bendigo, and Colony of Victoria, have invented a certain new and useful Umbrella-Holder for Cycles, of which the following is a specification.

10 The object of my invention is to provide an attachment to bicycles, tricycles, and similar vehicles whereby the riders of the same are protected from the effects of either sun or rain.

15 It consists in certain novel constructions, combinations, and arrangements of parts, as will be hereinafter fully described and claimed.

Referring to the drawings which form a part of this specification, Figure 1 represents a side elevation of the attachment complete, showing its connection to the saddle-pillar tube and the means by which the umbrella and its telescopic rod are attached. Fig. 2 shows, on an enlarged scale, and in two illustrations, a front elevation of the joint between the umbrella-rod and the umbrella-rod end as shown in Fig. 1. In the upper illustration one of the sides of the fork (the grooved side) on the end of the umbrella-rod has for the convenience of illustration been removed, exposing the tongue and the ridge thereon. In the lower illustration is seen the inside face of the removed side. This side may either be loosely riveted or hinged or in other ways attached to the plug secured in the end of the umbrella-rod, and on it are seen at various angles the grooves into which the ridge shown in the upper illustration may fit. Fig. 3 represents an end elevation of the umbrella-rod, showing the screw by which the fork and tongue are locked together. Fig. 4 shows a fancy handle which can be attached to a specially-constructed umbrella-rod for the convenience of the cyclist when it is required to use the umbrella but not the machine. Fig. 5 represents a plan of the clip which surrounds the saddle-pillar tube, though I do not bind myself to this special form of clip, since it may be of any shape consistent with adjustability. Fig. 6 shows a

side elevation of a lady's machine with the whole attachment complete and in position.

Similar letters of reference indicate similar or corresponding parts where they occur in the several views.

On reference to the drawings it will be seen that A is the saddle-pillar tube, to which by a clip B and bolts F is secured the main telescopic tube D. This tube D, which has a tongue C locked by a bolt E in the forks *b b*, (seen in the left of Fig. 5,) may be attached, as shown, by an elbow X. This elbow may be connected to the tube having the tongue C in its end in any well-known way, and, as shown, its diameter may be reduced and portion of it enter the tube. Beneath the horizontal portion of the telescopic tube D and taking the weight of the same is a diagonal stay G. This stay G is secured to the saddle-pillar A by a clip, as H, and to the elbow X by insertion in a fork on the end of X. By the aid of this diagonal stay the angle of the umbrella with the ground, in addition to the adjustment offered by the ridge and groove in the umbrella-rod joint hereinafter described, may be varied, since the clip H may be moved up and down the tube A to suit the convenience or height of any rider. Around the top of the elbow X, which portion is split, is a nut K, having a taper-thread inside it, which when tightened down closes the top of the elbow X and locks the tube D. Around the top of D is attached a taper-threaded ring I, which, with the tube inside it, is cut in two or more places, as at J. Around this taper-thread is a nut K', (with flats or slots or other suitable means of rotation,) which nut (similar to the one before described) when screwed downwardly closes the cuts together and locks the subsidiary telescopic tube L. On the top of the tube L is a T-piece M, at either end of which is attached nuts K<sup>2</sup> and K<sup>3</sup>, having the same objects as the nut K. Through the piece M passes the telescopic umbrella-rod N, which, as seen at Fig. 2, is provided with a fork upon its plugged end. One of these forks—say O—may be hinged or loosely connected to the plug in N, and on its inside face are grooves, such as P. Into one of these enters the ridge Q on the tongue-piece R, which forms part of the plugged end of the umbrella-rod end



S. Through the side O and the tongue R passes a screw T, which is threaded into the opposite side to the side O, and when tightened up locks the rods S and N together quite rigidly.

The runner on the umbrella-rod, to which the umbrella-ribs are connected, has a slot in it to clear the head of the screw T, which can be operated by any class of spanner which may be desirable, or a thumb-nut may be employed which will clear the runner, as before described.

When the umbrella is required for use without the bicycle, a handle—such as U, Fig. 4—is provided. This may be of wood or any other material, and has sunk within it a metallic bush V, locked by a plug, as W, and having a threaded central hole. This handle, which may be made most ornamental, is screwed on or off the threaded end of the plug in N, as occasion may require, and renders the umbrella usable for any purpose.

If an ordinary umbrella be used without any specially-constructed rod, the end of the tube N may be provided with any well-known means by which the umbrella may be either attached or detached with the greatest of ease and expedition.

The method of applying my attachment to a machine is as follows: The clip B being upon the main tube D and its height arranged, the bolts F are then tightened up, thereby locking it to the tube A. The clip H at the bottom of the backstay G is then tightened around the tube A in the same way and in such a position that the desired angle of the umbrella with the ground is obtained. The telescopic tube D is then inserted into the elbow X and the tube L into the rod D, and both of them are locked at any desired height by the lock-nuts K. Through the T-piece M (the handle U being removed) is then pushed the umbrella-rod N, which can be locked to any degree of extension by the lock-nuts K. If the umbrella-rod end S is not in its place, its tongue R is then inserted between the side forks on N, and the ridge-piece entering into one of the grooves P the screw T is tightened up. The ornamental handle U may then be screwed in place, and the cyclist is thus provided with a machine attachment which enables a ride to be obtained with both safety and comfort, let the weather be as inclement as it may.

Having now described my invention, what

I claim as new, and desire to secure by Letters Patent, is—

1. An umbrella for a cycle comprising in its construction a vertically-adjustable umbrella-support of approximately U shape, which is attached at its lower end to the saddle-supporting rod of a cycle out of the way of the rider, the outer end of the upper horizontal portion being provided with a plug having a forked end, each wall of which is provided with a transverse opening and one wall is provided on its inner face with radial grooves, an umbrella proper having a rod provided with a ridge, which latter is adapted to be inserted into any one of the radial grooves on the fork, and a screw passing through the openings in the fork for tightening the fork upon the umbrella-rod, and holding the umbrella at the desired angle, substantially as described.

2. An umbrella-support for a cycle which is capable of being adjusted to different heights on the frame of the cycle and which is also capable of having a tilting movement backward and forward, means for adjusting the same and securing it in an adjusted position, said support being pivotally attached to the saddle-supporting rod of a cycle by means of a clip vertically adjustable thereon, and a diagonal brace-rod attached at its upper end to the umbrella-support and at its lower end by a pivotal connection to a clip which is also vertically adjustable on the saddle-supporting rod, substantially as described.

3. An umbrella for a cycle comprising in its construction a vertically-adjustable and backward and forward tilting support, means for adjusting the same and securing it in an adjusted position, said support being pivotally attached to the saddle-supporting rod of a cycle by means of a vertically-adjustable clip and a diagonal brace-rod attached at its upper end to the umbrella-support and at its lower end by a pivotal connection to a vertically-adjustable clip on the saddle-supporting rod, and means for tilting the umbrella proper to the desired extent, and holding it in such tilted position, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

ARTHUR THOMAS WOODWARD.

Witnesses:

EDWIN PHILLIPS,

CECIL WOODS LE PLASTRUE.