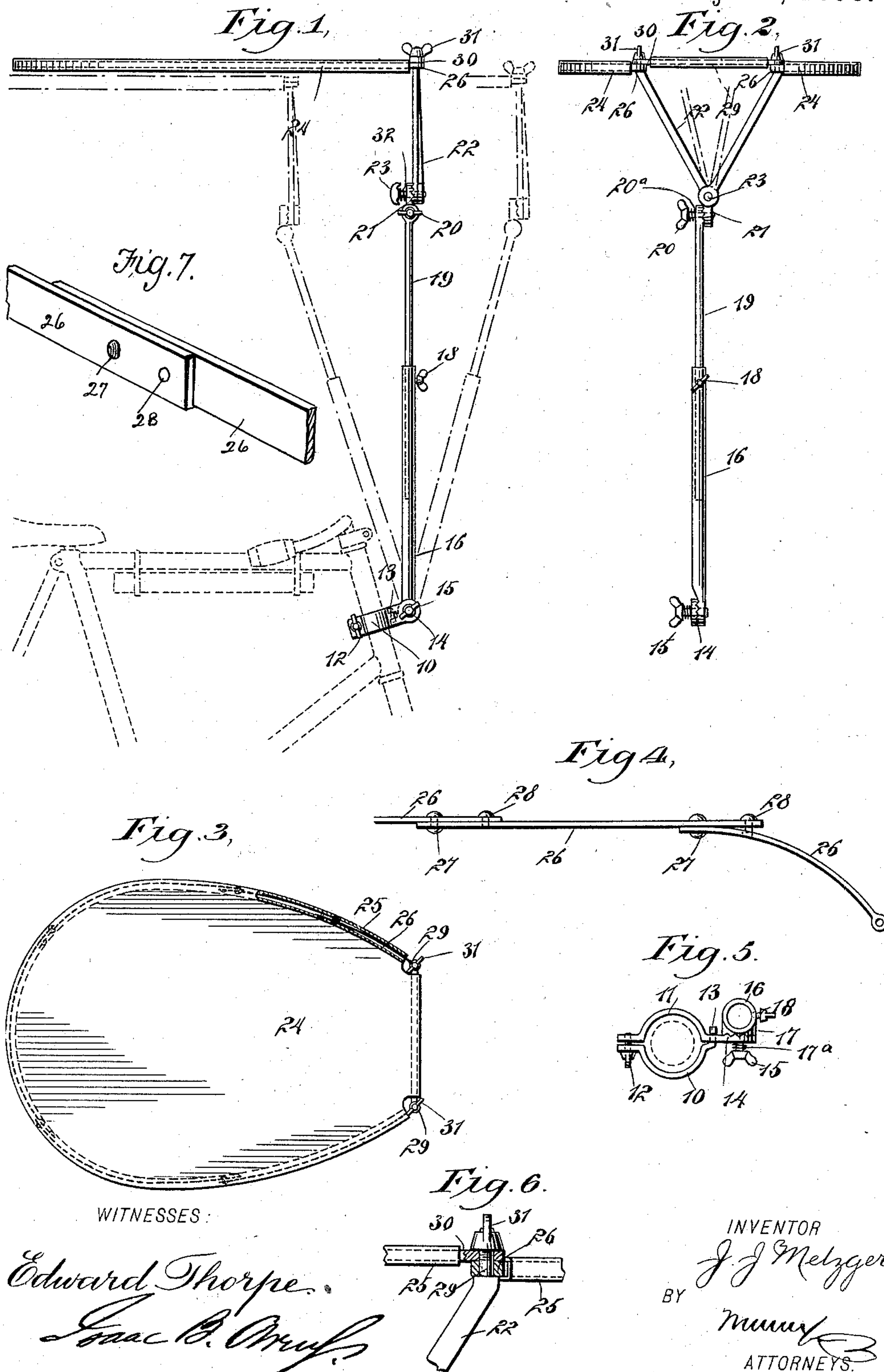


(No Model.)

J. J. METZGER.
BICYCLE CANOPY.

No. 603,916.

Patented May 10, 1898.



UNITED STATES PATENT OFFICE.

JACOB J. METZGER, OF CLEVELAND, OHIO.

BICYCLE-CANOPY.

SPECIFICATION forming part of Letters Patent No. 603,916, dated May 10, 1898.

Application filed January 22, 1898. Serial No. 667,578. (No model.)

To all whom it may concern:

Be it known that I, JACOB J. METZGER, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a new and Improved Bicycle-Canopy, of which the following is a full, clear, and exact description.

This invention is a bicycle-canopy capable of attachment to all classes of machines and of adjustment so as to meet the inclination of the sun's rays, and also to be utilized as a sail both in running with and reaching on the wind, and to be also utilized as a shelter during rain-storms.

This specification is the disclosure of one form of my invention, while the claim defines the actual scope of the invention.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the invention. Fig. 2 is a front elevation thereof. Fig. 3 is a plan view of the canopy with a part broken away. Fig. 4 is a detail view illustrating the construction of the frame for the canopy. Fig. 5 is a plan view illustrating the base-section of the canopy. Fig. 6 is a detail section showing the manner of joining the canopy-frame with the supporting-bars. Fig. 7 is a fragmentary perspective view of the frame for the canopy.

The canopy has a base-section adapted to clamp the stem of the bicycle-frame, and consisting of two semicircular members 10 and 11, having rearwardly-extending ears held together by a thumb-screw 12. The front end of the section 10 has a hook 13, entering an opening in the forwardly-projected lug 14 of the section 11. The lug 14 has a transverse opening in its outer end, through which a thumb-screw 15 passes. The thumb-screw 15 has a connection with a tubular standard 16, the lower portion of which is provided with a serrated enlargement 17, engaging a correspondingly-serrated face of the lug 14. A spring 17^a surrounds the screw 15 and keeps the serrated face of the lug 14 and the serrated enlargement 17 on the standard 16 yieldingly engaged. By these means the standard 16 may be adjusted and held rigidly at any inclination either forward or backward.

Slidable within the standard 16 and held

by a thumb-screw 18 is a rod 19, having a flattened upper end provided with an orifice to receive a thumb-screw 20. The flattened upper end of the rod 19 is serrated to engage a serrated face on the block 21. The thumb-screw 20 extends into the block 21 and is surrounded by a spring 20^a, which presses the serrated faces of the rod 19 and block 21 in yielding engagement, and by these means the block 21 is adjustably mounted on the rod 19. The block 21 has two serrated faces arranged in planes at right angles to each other. The upper serrated face of the said block is engaged by the correspondingly-serrated lower end of one of the pivotally-connected members, forming a fork 22. Said fork is held adjustably to the block 21 by means of a headed pin 23, sliding in the block 21 and in one of the members of the fork 22, said pin being screw-threaded and engaged with a screw-thread in the other member of the fork 22. Pressure is applied by a spiral spring 32, pressing on the block 21 and on the head of the pin 23. The tension of the spring 32 may be regulated by turning the pin 23 in the member of the fork 22 having the threaded aperture.

The awning or canopy proper, 24, is provided around its edges with a casing 25, receiving a bowed casing-frame consisting of a number of flat flexible metallic sections 26, pivotally connected with each other by rivets 27 and each having a fixed pin 28, such pins being capable of seating in openings formed in the sections 26. When the pins 28 are engaged in said openings, the sections 26 are held rigidly in extended position. The sections may be folded, however, by bending the sections laterally, as illustrated with reference to the right-hand section in Fig. 4, thus causing the contiguous pin 28 to be disengaged from its corresponding opening and permit the bent section to swing on the pivot formed by the rivet 27. By these means the several sections 26 may be folded snugly alongside each other. Each end section 26 is provided with an eye respectively receiving pins 29, in turn respectively formed rigid with the arms of the fork 22. Extending horizontally between the pins 29 is a bar 30, which passes through the casing at the forward edge of the awning or canopy proper, 24, and which is held also by the pins 29. Thumb-nuts 31

on the pins 29 press down upon the parts 26 and 30 to hold them rigidly in place.

A canopy constructed as shown and described may be adjusted as a whole forward 5 and backward on the screw 15. The height of the awning or canopy proper may be regulated by moving the rod 19 up and down in the standard 16. The inclination of the awning with reference to the horizontal may be 10 regulated by moving the block 21 on the screw 20, and the edgewise disposition or tilt of the awning may be adjusted by swinging the parts on the pin 23. Consequently the awning may be adjusted to any inclination of the 15 rays of the sun or for shelter from rain. The awning also may be swung to a perpendicular position, so as to serve as a sail with which the bicycle may run before a fair wind, and if the wind be on the quarter the awning may 20 be adjusted to serve as a sail reaching on the wind.

Owing to the peculiar arrangement of the joints of the canopy the position of the several parts may be readily adjusted by the rider 25 without necessitating his leaving his seat on the bicycle. This enables the canopy to be adjusted to suit the conditions of the weather

without interfering with the convenience of the rider. The canopy may be disjointed and folded beneath the bicycle, as shown by dotted 30 lines in Fig. 1. In this position the canopy is not in the way and may be conveniently reached for assemblance in an operative position.

Having thus described my invention, I 35 claim as new and desire to secure by Letters Patent—

In a canopy the combination of a base-section capable of being attached to the stem of a bicycle, a tubular standard supported on 40 the base-section, a rod adjustably held in the tubular standard, a block located at the upper end of the rod, a thumb-screw adjustably holding the block on the rod, two pivotally-connected members mounted on the block and 45 forming a fork, the arms of which extend upward and outward in opposite directions, and a canopy proper having the upper ends of the said members attached thereto, whereby to sustain the canopy proper adjustably in place. 50

JACOB J. METZGER.

Witnesses:

JNO. W. TABER,
H. W. WADE.