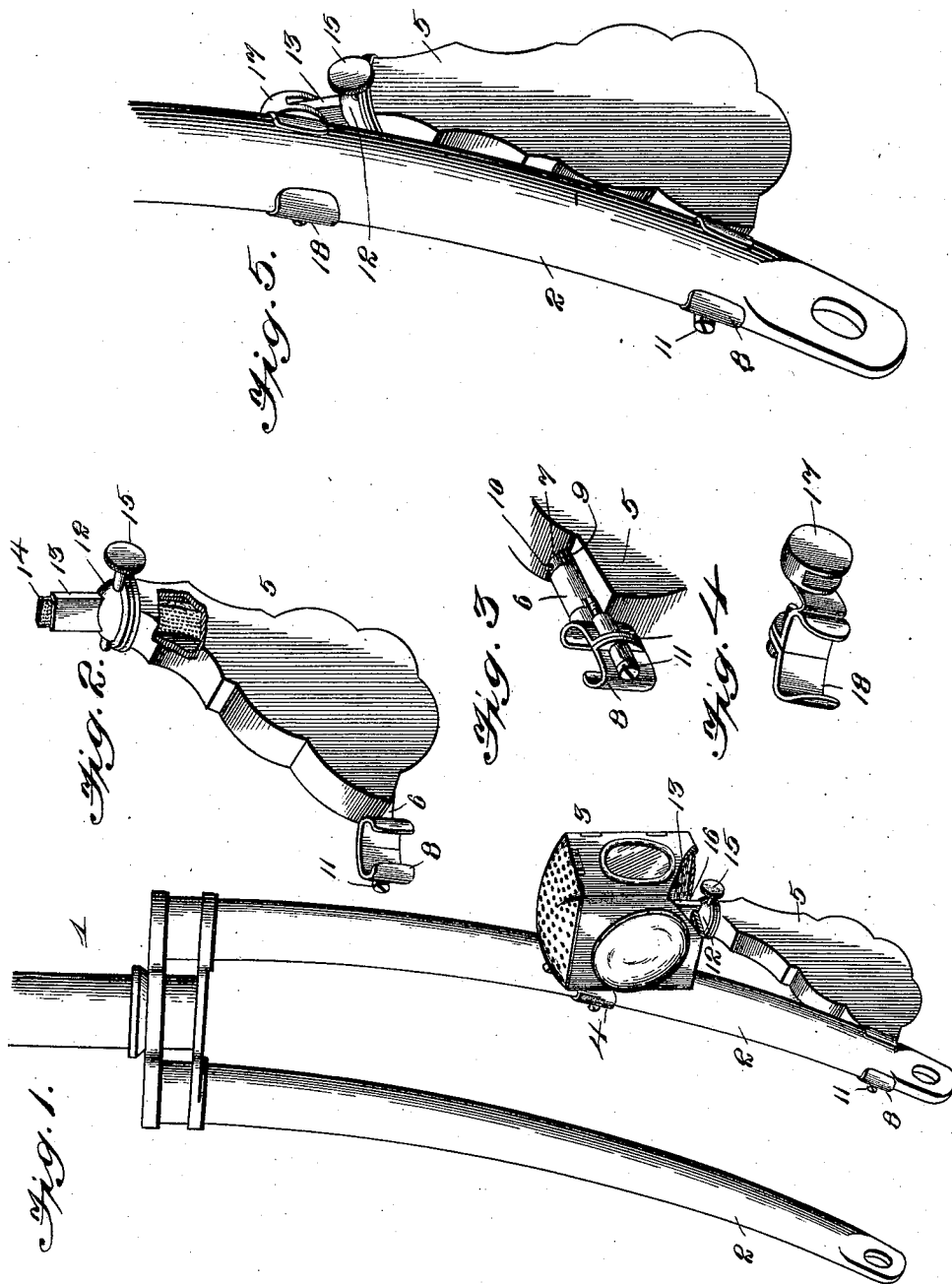


(No Model.)

D. R. REYNOLDS.
BICYCLE LAMP.

No. 577,967.

Patented Mar. 2, 1897.



Inventor
David R. Reynolds

Witnesses
Wm. J. Koerth.
R. M. Smith.

By his Attorneys,

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

DAVID RICKETTS REYNOLDS, OF PHILADELPHIA, PENNSYLVANIA.

BICYCLE-LAMP.

SPECIFICATION forming part of Letters Patent No. 577,967, dated March 2, 1897.

Application filed April 8, 1896. Serial No. 586,719. (No model.)

To all whom it may concern:

Be it known that I, DAVID RICKETTS REYNOLDS, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Bicycle-Lamp, of which the following is a specification.

This invention relates to lamps, and is especially designed for use in connection with bicycles of the ordinary safety pattern.

The present invention is in the nature of an improvement upon the construction shown and described in a former application, filed January 25, 1896, Serial No. 576,845, now pending. In the said former application one of the fork members was used as a reservoir for the oil, and the oil was conducted therefrom through a hinged arm constituting the wick-tube and thus carried to the lamp-case, adjustably secured to the said fork member. Now while the construction referred to affords a very compact and desirable arrangement, owing to the time required to apply the said hinged arm or wick-tube and the incidental expense thereof some objection may be raised by certain classes of riders who desire to have a lamp which may be quickly and entirely removed in all its parts from the machine. To provide for this class of riders and to obtain a lamp which may be quickly applied to any modern make of machine, I have invented the lamp the novel features and details of which will be hereinafter fully described, illustrated in the drawings, and pointed out in the claims hereto appended.

In the accompanying drawings, Figure 1 is a perspective view of the steering-fork of a bicycle, illustrating the form and application of the improved lamp. Fig. 2 is an enlarged detail perspective view of the detachable oil-reservoir. Fig. 3 is a detail perspective view taken from underneath the reservoir and showing the connection between the same and the bicycle-fork. Fig. 4 is a detail perspective view of the detachable wick-cap. Fig. 5 is a detail view showing the reservoir in its folded position and the cap engaging over the wick.

Similar numerals of reference designate corresponding parts in the several figures of the drawings.

Referring to the accompanying drawings, 1

designates the steering-fork of a bicycle, having the usual fork arms or ends 2. Mounted upon one of said arms or ends is a lamp-case 3, constructed as described in said former application, whereby it may be folded or collapsed and placed in the pocket when detached from the machine. Said lamp-case is also provided at its inner side with a clip 4, which embraces the adjacent fork-arm and adapts the lamp-case to be slid up and down on said arm and also to be entirely removed therefrom.

5 designates the improved oil-reservoir, comprising a hollow shell of any desired size or material and having any desired ornamental configuration or finish. This reservoir is provided at its lower end with a rigid sleeve-bearing 6, within which is received the spindle 7 of a clip 8, embracing the fork-arm beneath the lamp-case. The sleeve-bearing 6 is cut away at its inner end to form one or more shoulders 9, which coast with a pin or stop 10 on the inner end of the spindle 7 to limit the vibration of the oil-reservoir either in an outward or an inward direction. The clip 8 is made in two sections which are connected by an adjusting-screw 11, thus adapting the clip to be clamped upon different-sized forks.

The reservoir 5 is provided at its swinging end with a screw-top 12, having a wick-tube extension 13, through which passes a wick 14, and the top also carries a wick-raiser 15 for adjusting the wick to the proper height. The lamp-case is provided in its bottom with an opening 16, and after the reservoir has been swung laterally away from the fork-arm the lamp-case is adjusted downward on said arm until the wick-tube passes through the bottom of the lamp-case, where after the wick is lighted the flame will be protected from the wind.

When the use of the lamp is no longer required, the lamp-case is moved upward on the fork-arm and the reservoir is vibrated inward until the wick-tube and the projecting end of the wick are received in a hollow cylindrical or disk-shaped cap 17, attached to the fork-arm by means of a clip 18, similar to that 8 above referred to, the said cap occupying a position just in rear of or at the rear edge of the fork-arm. This cap serves to extinguish

the light and also prevents the too rapid evaporation of the oil from the wick.

The improvement above described enables both the lamp-case and the oil-reservoir, as well as the wick-cap, to be entirely removed from the machine; or, if desired, the lamp-case may be removed and carried in the pocket or tool-bag and the reservoir may be folded inward, where it will lie close up to and just behind the fork-arm, where it will not attract much attention.

It will be apparent that changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

Having thus described the invention, what is claimed as new is—

1. The combination with the frame of a bicycle, and a lamp-case removably attached to said frame, of an oil-receptacle independently hinged to said frame and adapted to be folded close to the fork when not in use, substantially as described.

2. The combination with the frame of a bicycle, and a lamp-case detachably connected thereto, of an oil-receptacle having an independent hinged connection with said frame, whereby said receptacle may be folded when

the lamp-case is removed, and means whereby said receptacle may be detached, substantially as described.

3. An oil-receptacle provided with a sleeve-bearing, in combination with a clip adapting the receptacle to be removably attached to a bicycle, said clip having a spindle which enters the sleeve-bearing and is provided with a stop coacting with a shoulder formed in the sleeve-bearing, substantially as and for the purpose described.

4. The hollow cylindrical or disk-shaped wick-cap, in combination with the clip by means of which said cap is removably attached to the machine, substantially as described.

5. The combination with a cycle-frame, of an oil-receptacle connected directly thereto and capable of being folded against said frame, and means on said frame for holding said receptacle when it is folded against said frame, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

DAVID RICKETTS REYNOLDS.

Witnesses:

MARION DUKE DARNALL,

GEORGE EDWARD WALHIZER.