

(No Model.)

F. T. WILLIAMS.
LANTERN HOLDER.

No. 577,974.

Patented Mar. 2, 1897.

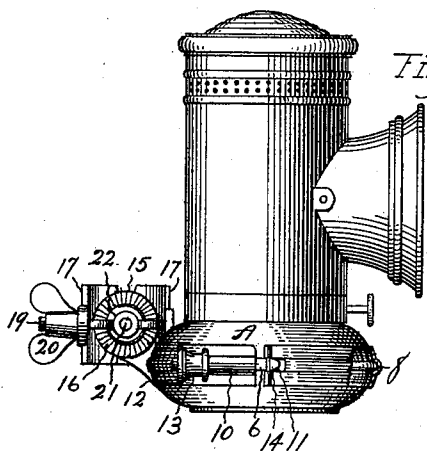


Fig. 1.

Fig. 2.

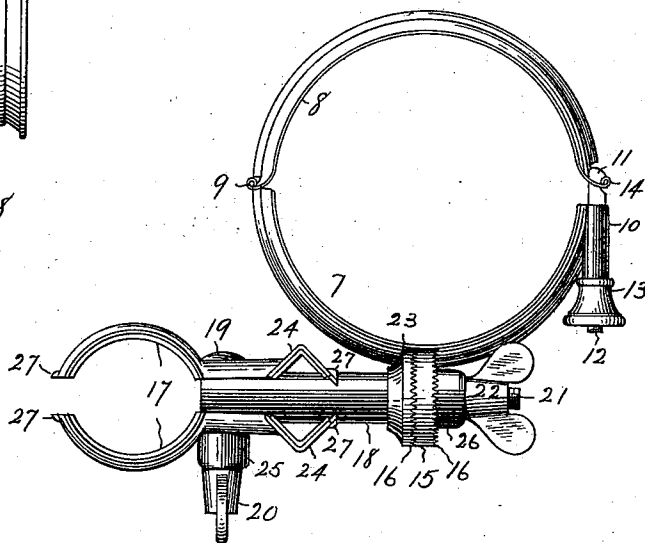


Fig. 3.

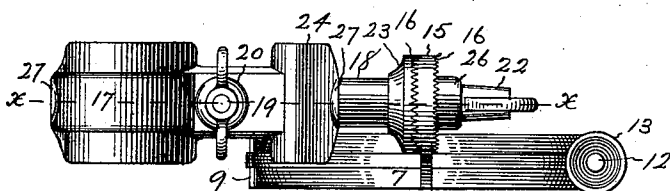


Fig. 4.

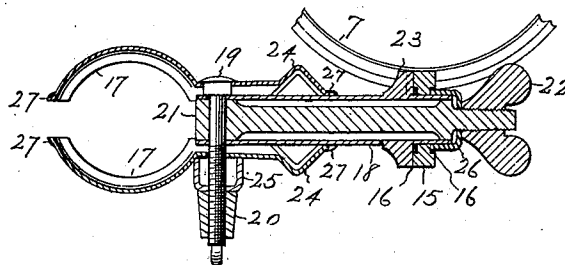
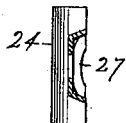


Fig. 5.

Witnesses

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UNITED STATES PATENT OFFICE.

FRANK THEODORE WILLIAMS, OF MERIDEN, CONNECTICUT, ASSIGNOR TO
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LANTERN-HOLDER.

SPECIFICATION forming part of Letters Patent No. 577,974, dated March 2, 1897.

Application filed December 26, 1896. Serial No. 616,976. (No model.)

To all whom it may concern:

Be it known that I, FRANK THEODORE WILLIAMS, a citizen of the United States, residing at Meriden, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Lantern-Holders, of which the following is a specification.

My invention relates to improvements in lantern-holders for bicycles, carriages, &c.; and the objects of my improvement are simplicity and economy in construction and efficiency in operation, the lantern cup or lamp itself forming one part of one swivel-joint.

In the accompanying drawings, Figure 1 is a side elevation, partly in vertical section, together with a lantern secured therein. Fig. 2 is a plan view of the holder. Fig. 3 is a rear elevation thereof. Fig. 4 is mainly a horizontal section on the line *xx* of Fig. 3, and Fig. 5 is a transverse section through the middle portion of one member of the head or fork clamping jaws.

The lantern-fount or lantern-cup A is of ordinary form, having a peripheral bead 6, above and below which the diameter of the cup gradually decreases. The two parts 7 and 8 of the lantern-holding ring have their inner faces formed in cross-section to fit the sides of the cup, as shown in Fig. 1, and said parts are hinged together, as at 9, Figs. 2 and 3. The part 7 is provided near one end with a socket 10, through which a screw-slide passes, the said slide being provided at one end with a hook 11 and at its other end with a threaded shank 12, upon which the adjusting-nut 13 is fitted to bear against the end of the socket 10. The free end of the part 8 is provided with a cross-pin 14 for the hook of the screw-slide to engage, whereby upon turning the said nut 13 the two parts of the lamp-holding ring may be bound tightly upon the round body portion of the cup for holding the lantern or loosened for releasing the lantern to turn it within the ring or remove it therefrom. The said part 7 is also provided with a rigid and centrally-perforated hinge-lug or bracket 15 of a disk-like form and with serrated side faces 16. The clamping-jaws 17 are mounted upon a tube or sleeve 18 by means of a bolt 19 and thumb-nut 20, which bolt

passes transversely through one end of said sleeve and also through one end of a bracket-adjusting bolt or shaft 21, the opposite and projecting end of said bolt or shaft being threaded to receive the thumb-nut 22. Said sleeve is also provided with a companion bracket or hinge-lug 23, having one side face serrated to engage one or the other of the side faces on the bracket 15. For cheapness of construction I prefer to make the sleeve 18 and bracket-adjusting bolt or shaft in two parts; but when assembled their function is substantially the same as if the said sleeve and bolt were formed of one and the same piece as one rigid bracket-adjusting shaft with the hinge-bracket 23 made rigid thereon. The larger ends 17 of the clamping-jaws are adapted to be secured upon the head of a bicycle, and the smaller ends 24 are adapted to be secured upon either arm of the bicycle-fork. By loosening the thumb-nut of the bolt 19 the clamping-jaws may be turned over end for end, so as to have the smaller ends 24 project beyond the end of the sleeve 18 in the position occupied by the larger ends 17, as shown in the drawings. Cup-like washers 25 and 26 are placed under the thumb-nuts 20 and 22, respectively. Both ends of the clamping-jaws are slightly recessed or curved, as at 27, so as to partially embrace the bracket-adjusting shaft and hold the said jaws in alignment therewith.

The lamp-holding ring not only furnishes means for securing a lantern to the holder, but it also makes, in connection with the lantern itself, a swivel-joint whereby the lantern may be turned around to make its lense-face in any desired direction, the clamp-ring, of course, being loosened and then tightened again after properly adjusting the said joint. By loosening and tightening the thumb-nut 22, that binds the brackets 15 and 23 together, the lantern can be tipped as may be desired and held in its adjusted position. By removing said thumb-nut, the clamp-ring, and its bracket 15 and then replacing them, the clamp-ring may be arranged upon either side of the sleeve 18, as may be desired. By means of the bolt 19 and its nut 20 either end of the clamping-jaws may be projected and the holder secured to either the bicycle-head or

one member of the fork, as may be desired. The recesses or curves 27 in the ends of the clamping-arms, when in engagement with the sides of the sleeves 18, will prevent said arms
 5 from swinging on the bolt 19. The whole forms a neat and compact holder of a convenient and efficient form and one that can be produced at a small cost.

While I prefer to employ the devices shown
 10 for supporting the clamp-ring, other supporting devices may be substituted as an equivalent therefor and still reap the advantages of forming a swivel-joint by means of said ring and the lantern held therein. It is also evi-
 15 dent that my holder, without any change of construction, might be secured to one end of a carriage-dash instead of a bicycle-fork, and that a change in size or form to adapt it to fit
 20 any other portion of a carriage would not be a material change.

I claim as my invention—

1. The combination of the clamp-ring, the double-faced and reversible hinge-bracket 15 rigidly secured to said ring, the bracket-ad-
 25 justing shaft having secured thereon a companion hinge-bracket, clamping-jaws for attaching said bracket-adjusting shaft to a support, and devices for attachably and detach-
 30 ably securing said clamp-ring and its hinge-bracket to said bracket-adjusting shaft with either face of the hinge-bracket 15 against the face of its companion hinge-bracket, as may be desired, substantially as described.

2. The clamp-ring with its meeting ends
 35 arranged to move to and from each other and having near one of said ends a socket 10, the screw-adjustable slide guided longitudinally

within said socket for connecting the said ends, and supporting devices for said clamp-
 ing-ring, substantially as described and for 40 the purpose specified.

3. The combination of the clamp-ring for receiving and holding a round body portion of a lantern and with the lantern forming a
 swivel-joint permitting the lantern to be 45 turned horizontally on its vertical axis, a hinge-bracket rigidly secured to said ring, a companion hinge-bracket having devices for securing the complete holder to a vehicle, and
 means for adjustably securing said hinge- 50 brackets together and forming the joint for tipping said clamp-ring on a horizontal axis substantially as described.

4. The combination of the hinge-bracket 15 for supporting a lantern, with a bracket-
 55 adjusting shaft having a companion bracket thereon, the clamping-jaws secured to one end of said bracket-adjusting shaft by means of the transverse bolt 19 and nut 20, said
 clamping-jaws being longitudinally recessed 60 for fitting the sides of said shaft to hold them in alinement therewith substantially as described and for the purpose specified.

5. The combination of the hinge-bracket 15 for supporting a lantern, with a bracket-
 65 adjusting shaft having a companion bracket, and the double-ended clamping-jaws secured on said bracket-adjusting shaft and arranged to be changed end for end, substantially as described.

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Witnesses:

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