(No Model.)

M. E. GREEN.

DEVICE FOR ATTACHING LANTERNS TO CARS, CARRIAGES, &c.

No. 319,233. Patented June 2, 1885.

Fig. 1.

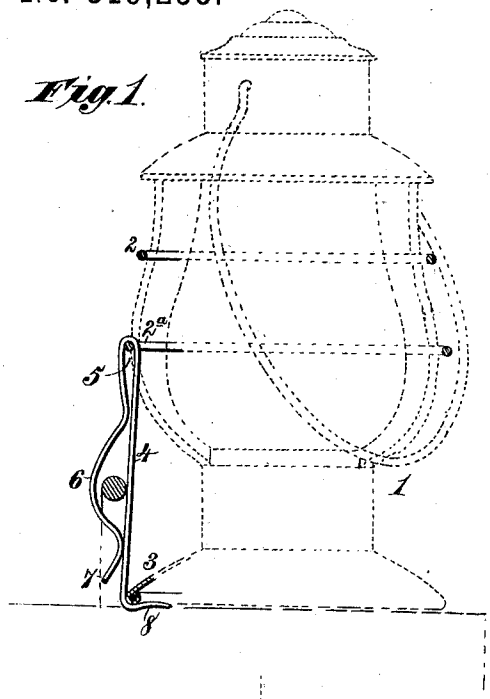


Fig. 2.

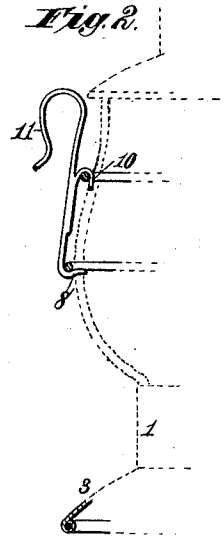


Fig. 3.

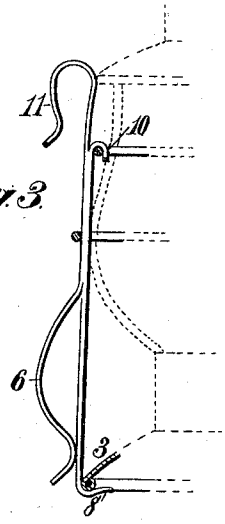


Fig. 4.

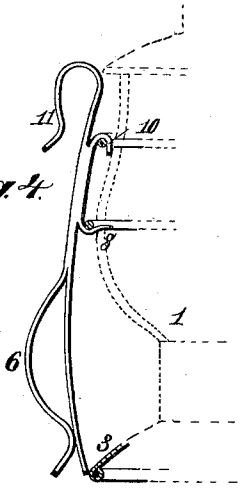
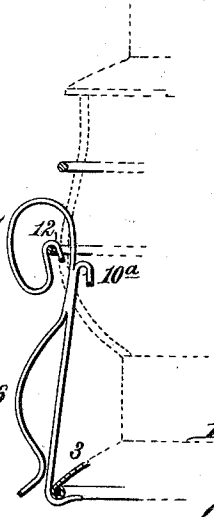


Fig. 5.



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UNITED STATES PATENT OFFICE.

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DEVICE FOR ATTACHING LANTERNS TO CARS, CARRIAGES, &c.

SPECIFICATION forming part of Letters Patent No. 319,233, dated June 2, 1885.

Application filed March 10, 1885. (No model.)

To all whom it may concern:

Be it known that I, MILTON E. GREEN, a citizen of the United States, residing at Hartford, Hartford county, Connecticut, have invented new and useful Improvements in Devices for Attaching Lanterns to Cars, Carriages, and other Vehicles, of which the following is a specification.

My invention relates to devices for holding lanterns upon a moving train, carriage, or other vehicle, and the purpose thereof is to provide a simple, strong, and easily-applied clasp, which may be detachable from the lantern, and which may be readily engaged with or disengaged from any convenient rail or other attachment, whereby the lantern is securely held or wholly supported, and all movement or displacement resulting from the oscillation of the carriage is avoided.

The invention consists in the several novel features of construction and combinations of parts hereinafter fully set forth, and definitely pointed out in the claims.

Referring to the drawings, Figure 1 is a side elevation of one form of device in which my invention is embodied, and Fig. 2 is a modification of the same. Fig. 3 is a side elevation of a form of device embodying a double holder. Fig. 4 is a view of the same, showing a slight variation in the form of the fastening by which the holder is connected to the lantern. Fig. 5 is a similar view showing slight modifications in construction.

In the said drawings the reference-numeral 1 denotes a lantern, of any suitable pattern or construction, having the usual wire guards, 2 2^a, and flaring base 3. This class of lantern is of the construction generally in use among railroad-men; but I wish it to be distinctly understood that my invention may be applied without material change to any form or construction of lantern.

The numeral 4 indicates a flat strip of metal of a suitable kind, and possessing a degree of elasticity, which is bent upon itself to form the eye 5, below which point it is bent to form the hook 6, the point 7 whereof lies against the lower end of the strip, and is curved outward to form an opening, into which the object to which the lantern is to be fastened may be inserted. The other end of the strip is curved sharply at about a right angle with the body of the strip, forming the step or engaging end 8. The device thus formed is applied to the lantern by opening the hook and inserting in it the lower guard, 2^a, which passes up into the eye or loop 5. The step 8 is then engaged with the base of the lantern in the manner shown, the whole operation of applying and disengaging the holder being extremely simple and easy.

The manner of using the holder is to engage the hook 6 with a rail, such as the hand-rail usually found upon the top at the ends of freight-cars. This rail is several inches from the roof of the car, and when the holder is engaged therewith the base of the lantern will rest on the roof.

A modified form of the invention is shown in Fig. 2, in which a single strip of metal is provided with a catch, 10, which engages with the wire guard 2, the lower end having a step, 8, similar to that shown in Fig. 1. The upper end of the strip is bent into a hook, 11, opening downwardly.

The device may be further modified to form a double holder having an upper and a lower hook or clip, as shown in Figs. 3, 4, and 5. In the first the strip is provided with a hook, 10, similar to that provided in Fig. 2, but engaging with the upper guard, 2. The lower end has a step, 8, engaging with the base 3 in the manner already described; but in this form the holder is considerably elongated, and a hook, 11, similar to that shown in Fig. 2, is formed upon its upper end, and a separate holder, 6, of the construction shown in Fig. 1, is applied to the lower end. By this construction a hold is given at two separate points, whereby the lantern may have perfect support in a vertical position without a rest for the base-piece 3. In Fig. 4 I have shown the same form of holder, provided with means for attaching it to the wire guards 2 and 2^a, which are substantially like those illustrated in Fig. 2—that is, having a hook, 10, and a step, 8.

In Fig. 5 I have shown a holder so constructed that it is adapted to lanterns in which the distance between the base 3 and the guard 2^a varies. In this form of holder the upper end of the strip is bent around in a complete spiral, and upon the extremity thereof a hook,

12, is formed, which engages with the lower wire guard, 2^a. The spring of the metal will give sufficient elasticity in all ordinary cases to accommodate average variations; but, if desired, a second hook, 10^a, may be placed upon the back of the strip to increase the range of attachment. The hook or holder 6 in this modification is not different from that already described, and the same may be said of the step 8.

The manner of using this device is as follows: The devices shown in all the figures, except Fig. 2, may be used to attach the lantern to a hand rail or rod, with its base resting upon the roof of the car. In such attachment the hook is caught over the rail, and when the lantern is required it is released by lifting it upward, when the rail will draw out of the hook without difficulty. The hook is engaged with the rail also by merely pressing the lantern downward after the opening of the hook has been placed upon the rail.

The form of holder shown in Fig. 4 is intended for use in securing the lantern to the platform hand-rail between the cars or to the iron ladders on the sides or ends of the same.

The holder shown in Fig. 2 is intended for suspending the lantern to any suitable support.

The device in Fig. 3 is a double holder, for the purpose already described, and for securing the lantern to a rod, rope, or other attachment in cases where the base has no support. The holder in this case is connected with the lantern by the upper guard, 2, and the base 3, and passes inside the guard 2^a.

What I claim is—

1. A holder for lanterns, consisting of a metallic strip having an upper eye or hook, and a lower step for securing it to the wire guards or a guard and base-piece of the lantern, and provided with a hook, substantially as described.

2. A holder for lanterns, composed of a metallic strip having an eye or hook and a step, whereby it is secured to the lantern, and provided with an open hook above, and a lower elastic fastening-hook, substantially as described.

3. In a lantern-holder, the combination, with a lantern having the wire guards 2 and 2^a, and the base-piece 3, of a holder having a hook, 10, and a step, 8, and carrying an elastic fastening-hook, 6, substantially as described.

4. In a lantern-holder, the combination, with the holder having attaching devices 8 and 10, of the upper hook, 11, and the lower elastic fastening-hook, 6, substantially as described.

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

MILTON E. GREEN.

Witnesses:

JAMES T. MCMANUS,

THOMAS MCMANUS.