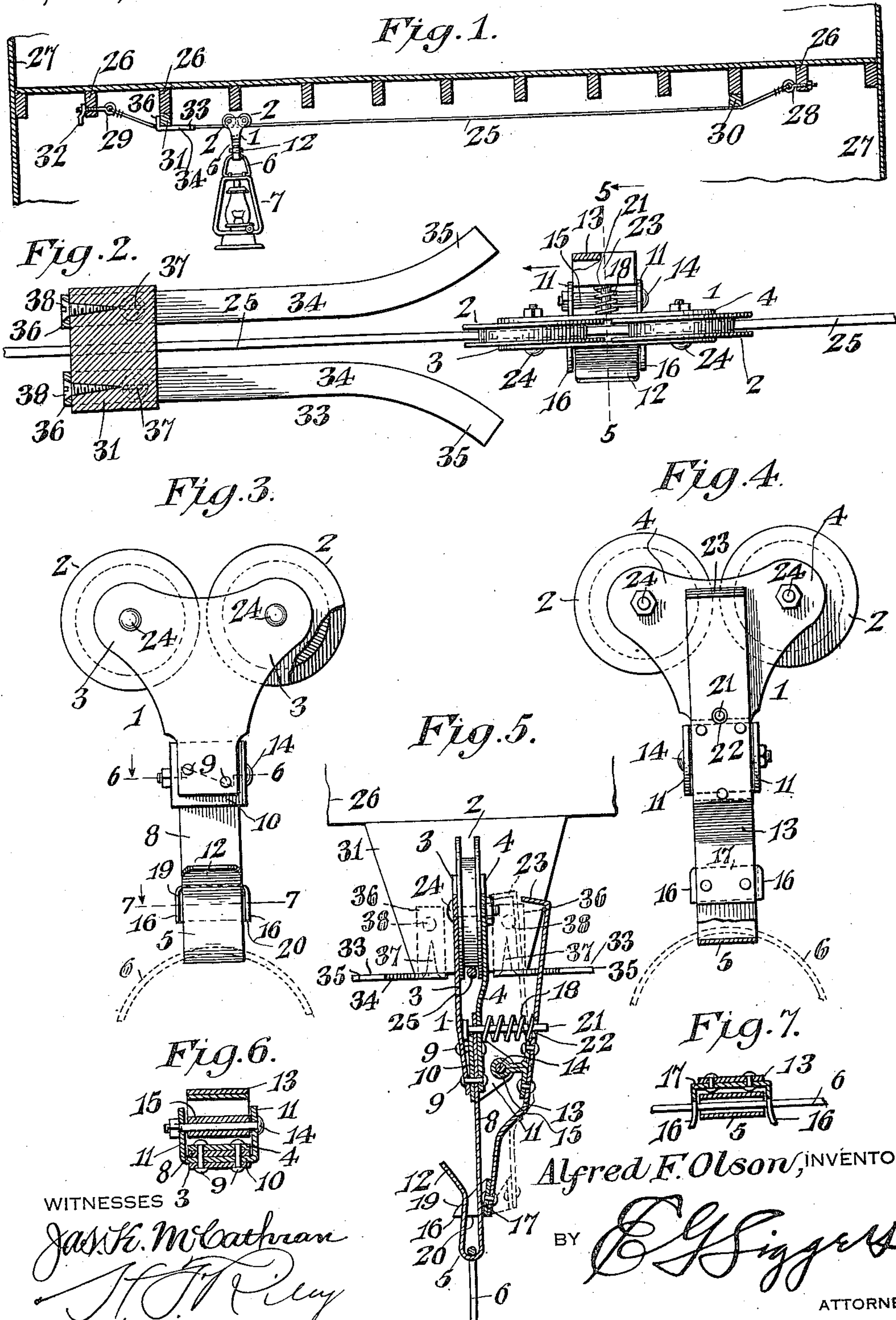


BEST AVAILABLE COPY

A. F. OLSON.
LANTERN CARRIER.
APPLICATION FILED JAN. 18, 1915.

1,154,879.

Patented Sept. 28, 1915.



UNITED STATES PATENT OFFICE.

ALFRED F. OLSON, OF VERMILION, SOUTH DAKOTA.

LANTERN-CARRIER.

1,154,879.

Specification of Letters Patent.

Patented Sept. 28, 1915.

Application filed January 18, 1915. Serial No. 2,969.

To all whom it may concern:

Be it known that I, ALFRED F. OLSON, a citizen of the United States, residing at Vermilion, in the county of Clay and State of South Dakota, have invented a new and useful Lantern-Carrier, of which the following is a specification.

The invention relates to a lantern carrier.

The object of the present invention is to provide a simple, practical, and efficient lantern carrier of strong and durable construction, designed particularly for use in barns and analogous places and provided with means for effectually preventing a lantern from being accidentally knocked off by horses or other animals striking against it, and capable also of being automatically operated to release a lantern when it is desired to remove the same for cleaning, filling, or other purposes.

With these and other objects in view the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claims appended hereto, it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing:—Figure 1 is a side elevation of a lantern carrier constructed in accordance with this invention, and shown applied to a portion of a barn, the latter being in section. Fig. 2 is an enlarged plan view of one end of the device, partly in section. Figs. 3 and 4 are side elevations of the lantern carrier. Fig. 5 is a transverse sectional view, taken substantially on the line 5—5 of Fig. 2. Fig. 6 is a detail sectional view on the line 6—6 of Fig. 3. Fig. 7 is a similar view on the line 7—7 of Fig. 3.

Like numerals of reference designate corresponding parts in all the figures of the drawing.

In the accompanying drawing, in which is illustrated the preferred embodiment of the invention, 1 designates a carrier provided with spaced grooved wheels 2 and comprising side plates 3 and 4 and a hook 5 rigid with and depending from the side plates and adapted to receive the bail 6 of a lantern 7. The side plates are secured together and to the upper end of the shank

8 of the hook by rivets 9 or other suitable fastening devices, which also pass through a plate 10 having laterally bent terminal portions forming projecting ears 11. The side plates and the hook constitute the body portion of the trolley and instead of constructing the same of separate pieces riveted together, as shown, it may be made in any other desired manner. The bail 12 of the hook is preferably inclined upwardly and outwardly at an angle to the shank, as shown, and the bail 6 is confined in the hook by a latch consisting of a lever 13 located at one side of the carrier and fulcrumed intermediate of its ends on a horizontal pin or pivot 14 to form upper and lower arms. The pin or pivot 14 pierces the ears 11 and passes through an eye 15, extending from the inner face of the latch lever. The lower arm of the latch lever is provided with approximately triangular lugs 16, preferably formed integral with a plate or piece 17 and extending across the space between the sides of the hook, as clearly illustrated in Fig. 5 of the drawing. The lugs, which are maintained in their engaging position by a spring 18, as illustrated in Fig. 5 of the drawing, have inclined upper edges 19 and horizontal lower edges or shoulders 20, which are adapted to prevent the bail 6 of the lantern from moving upwardly out of the hook. The inclined upper edges of the lugs enable the bail 6 to be readily engaged with the hook, and the said bail is adapted to force the lugs 16 outwardly and pass beneath the same in placing the lantern on the carrier. The spring, which is interposed between the upper arm of the latch lever and the adjacent side plate 4, is mounted on a horizontal pin 21, secured at its inner end to the frame of the carrier and extending outwardly therefrom and projecting through an opening 22 in the latch lever. The pin 21 supports the spring in position. The spring urges the upper arm of the latch lever outwardly, and the upper end 23 of the latch lever is bent inwardly at an angle to form a stop for engaging the adjacent side plate to limit the inward movement of the upper arm of the latch lever.

The side plates, which are preferably tapered, are connected at their upper portions by horizontal bolts 24, upon which the grooved wheels 2 are mounted, and the said wheels 2, which are arranged in alinement, are adapted to run on a track 25 preferably

consisting of a wire secured at its terminals to the spaced joists 26 of a barn 27 by eye bolts 28 and 29, or other suitable fastening devices, and spaced from the intermediate joist by blocks 30 and 31 to provide a space above the track for the passage of the upper portion of the carrier. Any other construction of track may, of course, be employed, and in order to enable the track wire to be adjusted to the desired tension, the bolt 29, which is elongated, is equipped with a handle or tail nut 32 and is adapted to be rotated to stretch the track wire. The blocks 30 and 31 are suitably secured to the joist and the block 31 constitutes a support for a fork 33, composed of spaced parallel side bars 34 having diverging inner terminal portions 35 forming a tapering space or opening between them and arranged to receive the upper portion of the carrier and the upper arm of the latch lever, whereby when the carrier is moved to the fork, the said diverging portions will operate the latch lever and move the lugs thereof from the position illustrated in full lines in Fig. 5 of the drawing, to the position illustrated in dotted lines in the said figure. This carries the latch lever away from the opening of the hook and releases the bail of the lantern, which then may be readily removed from the carrier. The outer terminals of the side bars 34 are bent upward at right angles to form arms 36, which fit against the outer faces of the block 31. The side bars 34 of the fork are fastened to the block 31 by means of screws 37 and 38, or other suitable fastening devices, which pierce the horizontal parallel portions of the side bars 34 and also the upwardly extending arms 36. When the carrier is moved away from the fork, the spring automatically swings the latch lever to its engaging position. The carrier and the lantern are adapted to be rapidly moved along the track wire from one end of a barn to another, without liability of the lantern being accidentally knocked off or otherwise displaced from the carrier.

What is claimed is:

1. A device of the class described including a track, a carrier movable along the track and provided with a lantern-receiving hook the mouth of which opens upwardly, a latch mounted on the carrier and arranged to close the mouth of the hook, and fixed means located at a point of the track in the path of the latch and arranged to automatically release the lantern from the hook.

2. A device of the class described includ-

ing a track, a carrier movable along the track and provided with a lantern supporting hook, and a spring actuated latch lever mounted on the carrier and provided with a lug arranged to confine a lantern therein, said lug being beveled at its upper edge and provided at its lower edge with a shoulder.

3. A device of the class described including a track, a carrier movable along the track and provided with a lantern supporting hook, and a spring actuated lever mounted on the carrier and provided with spaced projecting lugs embracing the hook and located at opposite sides thereof in position for confining a lantern within the said hook.

4. A device of the class described including a track, a carrier movable along the same and provided with means for supporting a lantern, a spring actuated latch lever mounted on the carrier and arranged to retain the lantern in the supporting means, and a fork arranged in the path of the carrier and composed of spaced sides having diverging portions arranged to engage the carrier and the lever and adapted to open the latter and release the lantern.

5. A device of the class described including a track, a carrier movable along the same and provided with a hook adapted to receive the bail of a lantern, a latch lever pivotally mounted at an intermediate point on the carrier and provided at one of its arms with means for confining the lantern in the hook, a spring arranged to urge the other arm outwardly for maintaining the lever in its engaging position, and a fork located in the path of the carrier and having portions arranged to engage the said carrier and the spring actuated arm of the lever to compress the spring and release the lantern.

6. A device of the class described comprising a track, a carrier movable along the same and provided with a hook to receive the bail of a lantern, a spring-actuated latch vertically disposed on the carrier and constructed to confine the bail in the hook, and a fork straddling the track and located at one end of the same, said fork serving as a stop for the carrier and also as a means for actuating the latch to release the bail from the hook.

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

ALFRED F. OLSON.

Witnesses:

PHILIP J. CLELAND,
STEPHORD E. OLSON.