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1,579,832

H. B. PATCHE

ELECTRIC LANTERN

Filed May 21, 1923

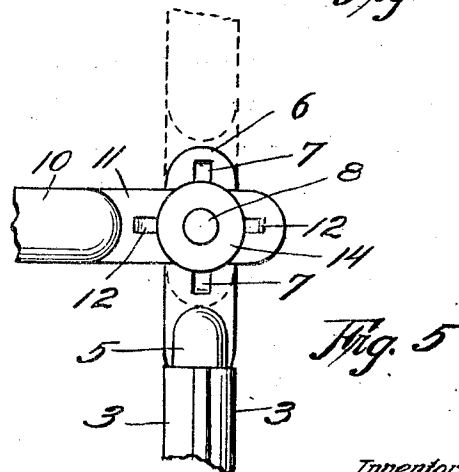
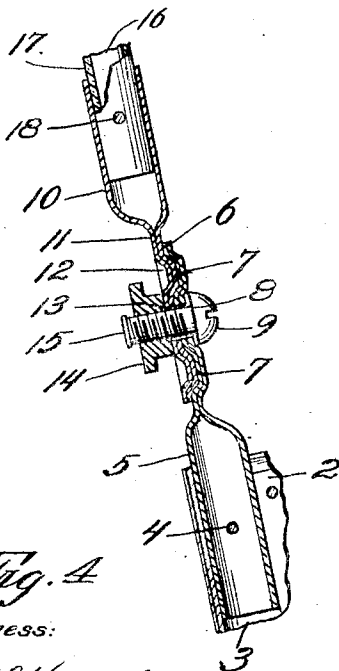
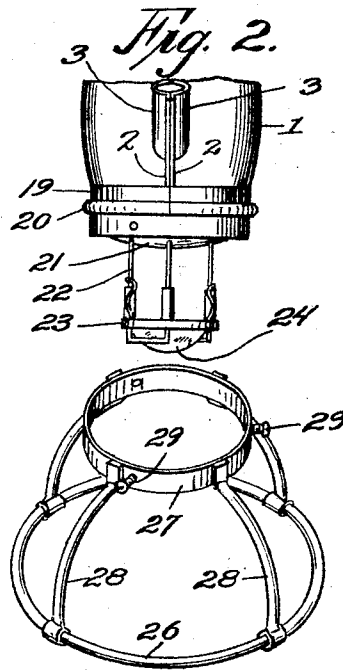
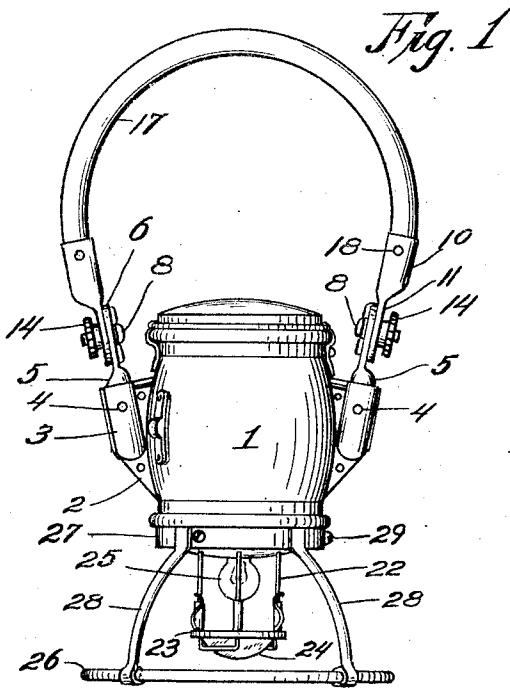


Fig. 4

Witness:

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Inventor:
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By Thorpe, Ward & Coys.

UNITED STATES PATENT OFFICE.

HENRY B. PATCHE, OF KANSAS CITY, MISSOURI, ASSIGNOR TO GENESY ELECTRIC LANTERN CO., OF RAWLINS, WYOMING, A CORPORATION OF WYOMING.

ELECTRIC LANTERN.

Application filed May 21, 1923. Serial No. 640,376.

To all whom it may concern:

Be it known that I, HENRY B. PATCHE, a citizen of the United States, and resident of Kansas City, county of Jackson, State of Missouri, have invented a certain new and useful Improvement in Electric Lanterns, of which the following is a complete specification.

This invention relates to electric lanterns of that class designed primarily for use by trainmen and switchmen, and the object is to produce an efficient device of this character having a strong and dependable lamp guard which can be secured in position quickly, and a foldable handle for convenience in the storage of the lantern.

With these objects in view the invention consists in certain novel and useful features of construction and combinations of parts, as hereinafter described and claimed; and in order that it may be fully understood, reference is to be had to the accompanying drawing, in which:—

Figure 1 is a side elevation of a lantern embodying the invention;

Figure 2 is a side elevation of the lower part of the body portion with the guard omitted;

Figure 3 is a detail perspective view of the guard;

Figure 4 is an enlarged central section of a portion of the handle; and

Figure 5 is a side elevation of the construction shown by Figure 4, but with the handle in partly folded condition.

Referring now to the drawing in detail, 1 indicates the body of the lantern, the same being hollow and preferably constructed of two similar oppositely bowed sections provided at their opposite margins with similar outstanding ears 2, and said ears are formed with outwardly bowed portions 3 of semi-cylindrical form, said portions extending divergently upward and each standing in opposed position to a corresponding portion to provide cylindrical sockets wherein by cross rivets 4 are secured the lower members 5 of the handle. The members 5 comprise the lower tubular portions and upwardly extending flat portions, the latter being produced preferably by flattening the upper ends of the tubular portions as shown at 6, and said portions 6 are provided in their outer faces with radial recesses 7, and

between said recesses with bolt holes 8 through which extend bolts 9.

Similar handle sections comprise tubular portions 10 and flat portions 11, the latter being adapted to fit flatly against portions 6, and being provided with protuberances 12 adapted to engage the recesses 7 when the handle is in upright or operative position. Portions 11 are also provided with bolt holes 13 through which the bolts 9 extend, and clamping nuts 14 engage said bolts for the purpose of clamping the flattened portions of the handle sections in interlocked relation. The outer ends of the bolts are preferably upset or headed as at 15 to guard against total dislocation of the nuts 14.

The handle sections 10 are connected by and receive the handle proper, the same consisting of a U-shaped metal core 16 and a fibre or equivalent insulating sheath or cover 17, and said handle proper is secured in the portions 10 by rivets 18. When the handle stands upright or in a vertical plane, the nuts 14 are screwed home to clamp the flat portions 6 and 11 in interlocked relation as shown most clearly by Figure 4, in which position all the parts of the handle constitute in effect a single rigid unit so that the lantern can be manipulated in any way without chance of pivotal action on the bolts 8. When the lantern is to be placed in a grip for transportation or stored away in the smallest possible space, the nuts 14 are unscrewed sufficiently to permit the handle proper with its upper and lower pivoted sections to be swung downward upon the pivot bolts until arrested by the guard hereinafter referred to.

The lower end of the body portion 1 terminates in a cylindrical portion 19 provided with a circumferential bead 20, and the body portion is closed at the lower end by a reflector 21 from which depends U-shaped frames 22 upon which are slidably mounted the holder 23 for a lens 24, so that such lens can be adjusted toward or from the incandescent lamp 25 depending from the central portion of the reflector.

The guard hereinbefore referred to, is of skeleton form and constitutes a protection for the lamp and lens and also a base for the support of the lantern when not suspended by the handle. The base ring 26 is arranged concentrically with respect to a

smaller top band 27, the latter being adapted to fit snugly on the portion 19 of the body against the lower side of the bead 20, and the base ring and band are connected by
5 braces 28 which are preferably spot-welded at their lower ends to the base ring and at their upper ends to the band, and the latter is equipped with a plurality of screws 29 whereby it is secured firmly to the lower end
10 of the body, said screws performing another function within the body which it is not necessary to describe in this connection, as it forms no part of this application.

It is believed that the construction and
15 operation of the device has been set forth sufficiently as to make further recapitulation unnecessary. From the above description it will be apparent that I have produced a device of the character described which
20 possesses all of the features of advantage set forth as desirable, and while I have described and claimed the preferred embodiment of the same, I reserve the right to make all changes properly falling within the
25 spirit and scope of the appended claims.

I claim:

1. In an electric lantern, a bail comprising an inverted U-shaped portion, downwardly-converging sections consisting of
30 tubular upper ends receiving and secured to the ends of the inverted U-shaped portion, and flattened lower ends having openings and facial protuberances above and below

said openings, and sections alined with the first-named sections respectively, and consisting of lower tubular ends and flattened upper ends fitting flatwise the flattened lower ends of the first-named sections and provided with openings registering with the openings of said first-named sections, and recesses for receiving the said protuberances when the bail is upright, in combination with a bolt extending through each pair of registering openings, and nuts engaging said bolts, and adapted to cooperate
45 with the bolts in clamping the flattened ends of said sections unyieldingly together when the bail is upright, with the said protuberances engaging the said recesses respectively.
50

2. In an electric lantern, a body comprising a pair of vertical semi-cylindrical members fitted together at their edges, each section at a point intermediate its height, having at its opposite edges outwardly projecting vertical ears fitted flatly together, the engaging ears having upwardly extending opposite outwardly-bowed portions, means for securing the engaging ears together, and an arch-shaped handle fitted and rigidly secured at its ends within the chambers
60 formed by said bowed ear portions.

In witness whereof I hereunto affix my signature.

HENRY B. PATCHE.