Aug. 30, 1927. 1,640,512

W. F. MITCHELL

LOCOMOTIVE LUBRICATOR SIGHT

Filed July 14, 1925

Fig. 1.

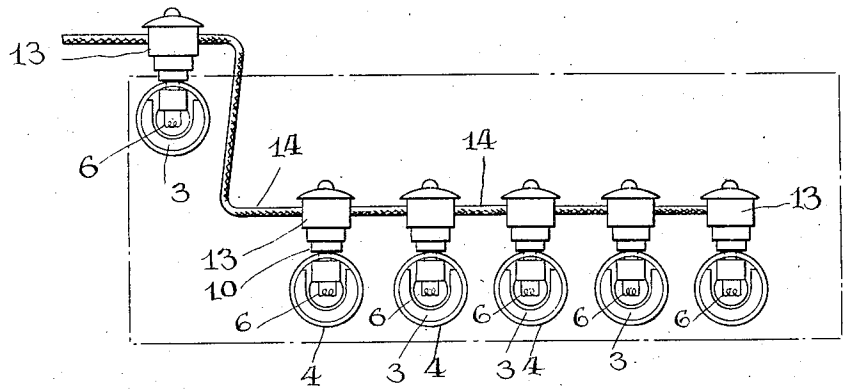


Fig. 2.

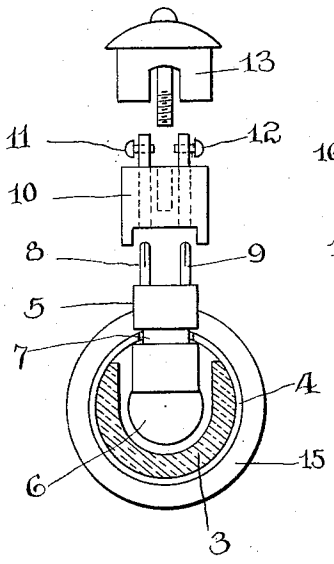
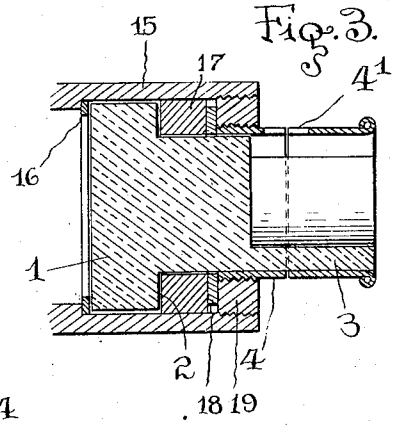


Fig. 3.



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UNITED STATES PATENT OFFICE.

WILLIAM FRANCIS MITCHELL, OF PASSAIC, NEW JERSEY.

LOCOMOTIVE-LUBRICATOR SIGHT.

Application filed July 14, 1925. Serial No. 43,441.

My invention relates to improvements in sights for locomotive lubricators and the object of my invention is to provide means whereby the lubricating feeds of a locomotive may be readily and conveniently observed. It is necessary to the proper operation of a locomotive that the lubricating devices shall be at all times under the observation of the engineer. In the devices at present in use the operation of the feed can be observed only with considerable difficulty and the neglect of other duties and as a result this duty of the engineer is frequently neglected.

It is an object of my invention to provide means whereby the lubricator will be illuminated for convenient observation and inspection.

I accomplish this object by the device illustrated in the accompanying drawings, in which

Figure 1 is a diagrammatic view of my improved device applied to one of the types of locomotive lubricator in use at the present time.

Figure 2 is a view of my improved device, with the parts separated for clarity, and

Figure 3 is a section of the device, with the lamp removed.

Similar characters of reference refer to similar parts throughout the several views.

My improved device is applied at the feed pocket or index of the lubricator and includes a transparent sight or window 1 preferably of glass, having a shoulder 2 by which it is held in position in a feed pocket or index of the usual type as is well understood in the art.

I preferably provide on this window 1 an integral glass extension 3 of U-shape in vertical section having an open top.

On this extension 3 I provide a separable sleeve 4 having an annular aperture 4′ in its upper side to receive the shank 5 of an incandescent electric light globe 6.

The electric light bulb 6 is of a size to be conveniently hung in the extension 3, free of its wall, and is provided with a shank 5 having a peripheral socket 7 to receive and be clamped by the aperture 4′ of the sleeve 4.

The incandescent lamp 6 may be of any desired type. I have shown for convenience of description the contacts 8, 9 to extend into the socket 10 provided with binding posts 11, 12 and having a cap 13.

The window 1 is seated in the casing 15 and a protective washer 16 of a suitable material may be inserted between the glass and casing to prevent the breaking of the glass. A gasket 17 is inserted upon the shoulder 2, with a washer 18 preferably between the gasket 17 and the locking ring 19 which is screwed into the mouth of the casing 15 thereby securely positioning the window 1 in the casing 15.

The window 1 with the electric lamp 6 arranged as above described is provided at one side of the lubricator index which is thereby conveniently illuminated.

I prefer to provide my improved device at each of the sight-feeds as illustrated in Figure 1 in which are shown six of these devices arranged diagrammatically for the several feeds with wires 14 forming a part of the electric circuit.

Having thus described my invention, what I claim is:

1. In a locomotive lubricator the combination of a casing, a window mounted in said casing, a U-shaped extension at right angles to the plane of said window and integral therewith, a separable two part sleeve supported by said extension, and an illuminating device supported by said two part sleeve.

2. In a locomotive, lubricator sight the combination of a casing, a window mounted in said casing and having means thereon whereby it may be retained in said casing, an extension on said window formed integrally therewith and U-shaped in cross-section, an illuminating device and means to support said device within the walls of said U-shaped extension.

3. In a locomotive lubricator the combination of a casing having socket means therein, a window supported in said socket, means to hold the window in said socket, an extension on said window formed integrally therewith, said extension being substantially U-shaped in cross-section, a separable two part sleeve supported by said extension, an illuminating device, and means co-operating between the parts of said sleeve whereby the illuminating device is supported in said U-shaped extension.

In testimony whereof, I have signed my name to this specification this 13th day of July, 1925.

WILLIAM FRANCIS MITCHELL.