

C. M. FLUKE.
REFLECTOR.

APPLICATION FILED AUG. 2, 1909.

948,216.

Patented Feb. 1, 1910.

Fig. 1.

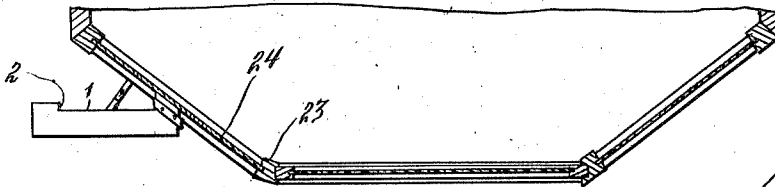


Fig. 2.

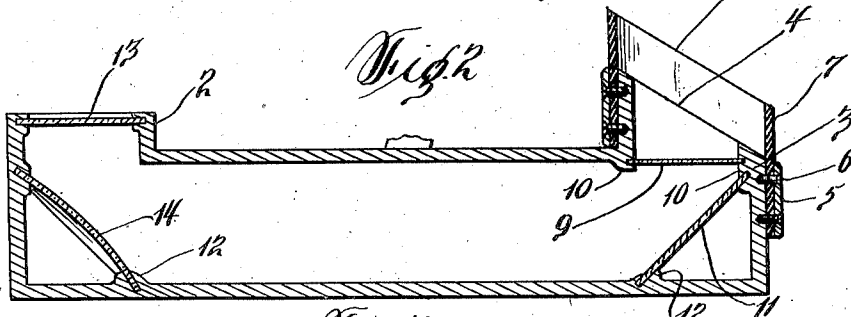


Fig. 3.

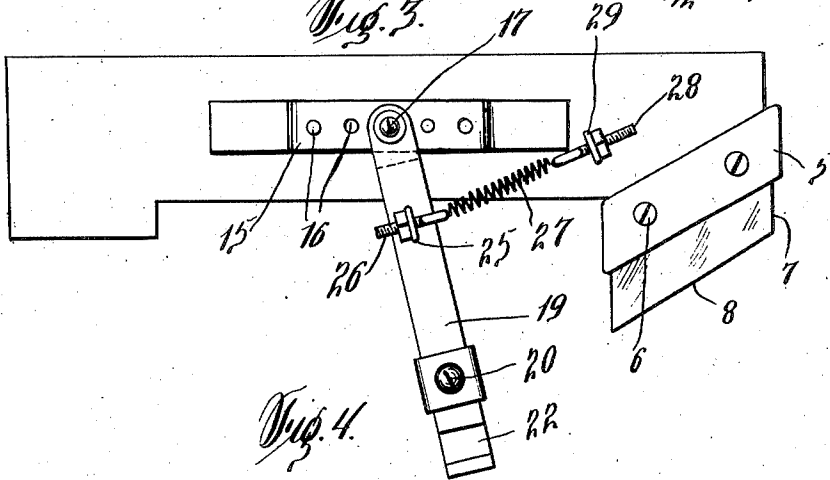
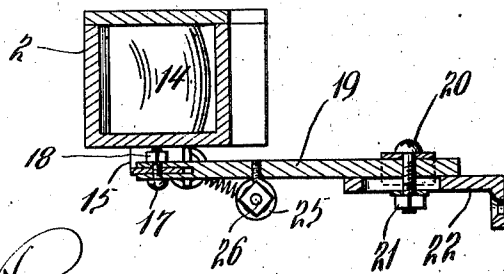


Fig. 4.



Witnesses

Samuel Payne
R. H. Butler

Inventor

Cloyd M. Fluke

By *H. C. Everett & Co.*
Attorneys

UNITED STATES PATENT OFFICE.

CLOYD M. FLUKE, OF PITTSBURG, PENNSYLVANIA.

REFLECTOR.

948,216.

Specification of Letters Patent.

Patented Feb. 1, 1910.

Application filed August 2, 1909. Serial No. 510,912.

To all whom it may concern:

Be it known that I, CLOYD M. FLUKE, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Reflectors, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to reflectors for street cars and similar vehicles.

The object of the invention is to provide a novel reflector which will permit of the motorman or the operator of the car observing the action of persons boarding or entering the car, thereby eliminating all danger of the motorman or operator of the car starting the same before persons have really entered the car.

20 A further object of this invention is to provide a street car with a simple and inexpensive reflector which will permit of observation being made in connection with the rear end of the street car, the reflector being provided with novel means for compensating for the jarring and vibrations of the car when in operation.

30 With the above and other objects in view which will more readily appear as the invention is better understood, the same consists in the novel construction, combination and arrangement of parts to be hereinafter set forth in detail and then claimed.

Referring now to the drawing forming a part of this specification, like numerals of reference designate corresponding parts throughout the several views, in which:—

40 Figure 1 is a horizontal sectional view of a portion of a car provided with the reflector, Fig. 2 is an enlarged horizontal sectional view of the reflector, Fig. 3 is a bottom plan of the same, and, Fig. 4 is a cross sectional view of the reflector.

45 In the accompanying drawings 1 denotes an oblong rectangular casing having the ends thereof closed by right angular extensions 2 and 3, the end of the extension 3 being beveled or cut at an angle, as at 4.

50 Secured to the outer side of the extension 3 by a strap 5 and screws 6 is a resilient hood 7, preferably constructed of rubber. The outer end of the hood 7 is beveled or cut at an inclination, as at 8 corresponding to the end of the extension 4, for a purpose that will hereinafter appear.

Arranged transversely of the casing 3 and

longitudinally of the casing 1 is a transparent plate 9 held in position by oppositely disposed grooved enlargements 10, provided therefor in the extension 3.

60 Mounted in the casing 1 adjacent to the extension 3 is a diagonally disposed reflecting plate or mirror 11 having one edge thereof mounted in a grooved enlargement 12 carried by the front side of the casing 1, 65 while the opposite edge thereof is mounted in the grooved enlargement 10 at the end of the casing 1.

The right angular extension 2 of the casing 1 is provided with a transparent plate 70 13 and a convex reflecting plate or mirror 14, the latter being disposed at a reverse angle to the mirror 11, while the former is at right angles to the extension 2 and in longitudinal alinement with the casing 1, thus 75 permitting of objects in front of the extension 2 being viewed through the medium of the mirrors 14 and 11 and the extension 3.

The casing 1 is provided with a depending bracket 15 having a plurality of open- 80 ings 16 formed therein. Adjustably connected to the bracket 15 through the medium of a screw 17 and a nut 18 in an arm 19. The opposite end of the arm 19 is connected by a screw 20 and a nut 21 to a slotted 85 bracket 22 adapted to be secured to the forward end 23 of a car adjacent to one of the windows 24 thereof. The arm 19 is provided with a hanger 25 for an eye-bolt 26, which is connected by a coil spring 27 to an 90 eye-bolt 28 adjustably mounted in a hanger 29, carried by the casing 1. The coil spring 27 is adapted to normally maintain the hood 7 in engagement with the pane of the window 24, irrespective of the jars or vibra- 95 tions to which the car is subjected when in operation.

The casing 1 is made of a sufficient length whereby the extension 2 thereof will protrude beyond the side of the car, thus per- 100 mitting of the motorman or operator of the car looking through the hood 7 to observe actions alongside of the car, particularly the actions of persons boarding the car.

As shown in Fig. 1 of the drawing, the 105 bracket 22 is secured to the window sill, but I reserve the right to locate the same upon any part of the window frame whereby the reflector can be positioned convenient for the observations of the motorman or op- 110 erator.

Since the casing 1 and the supporting

means thereof are exposed, I preferably make the same of light and durable metal not susceptible to the forces of nature.

While in the drawing forming a part of this specification there is illustrated a preferred embodiment of the invention, I would have it understood that the structural elements thereof can be varied or changed without departing from the spirit of the invention.

Having now described my invention, what I claim as new, is:—

1. A reflector of the type described, comprising a bracket, an arm adjustably connected to said bracket, a bracket adjustably connected to the outer end of said arm, a casing carried by said bracket, said casing having the ends thereof provided with right angular extensions, a flexible hood carried by one of said extensions, a reflecting plate or mirror located at each end of said casing for reflecting images of objects from one extension to the other, and means connecting said casing with said arm for maintaining said casing in position.

2. In a reflector, the combination of a bracket secured to the forward end of a car,

an arm adjustably connected to said bracket, a casing supported by said arm, means connecting said casing with said arm for maintaining the casing in position, said casing having the ends thereof provided with right angular extensions, one of said extensions adapted to protrude beyond the side of said car, a flexible hood carried by the other of said extensions and adapted to engage said car, and means within said casing for reflecting objects from one extension of said casing to the other.

3. A reflector for cars, comprising a casing, means whereby said casing can be connected to a car and protrude beyond one side thereof, a hood carried by one end of said casing for engaging said car, and mirrors located in the ends of said casing for reflecting objects from one extension thereof to the other extension of said casing.

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

CLOYD M. FLUKE.

Witnesses:

O. C. SCHLEY,
C. K. CHURCH.