Dec. 13, 1932. C. H. FOX 1,890,940

FIRE ENGINE

Original Filed Nov. 14, 1930 2 Sheets-Sheet 1

Fig. 1.

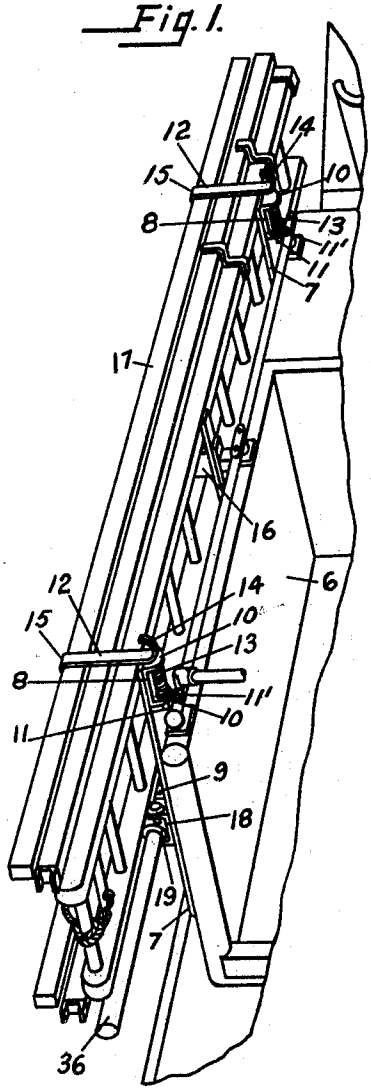


Fig. 4.

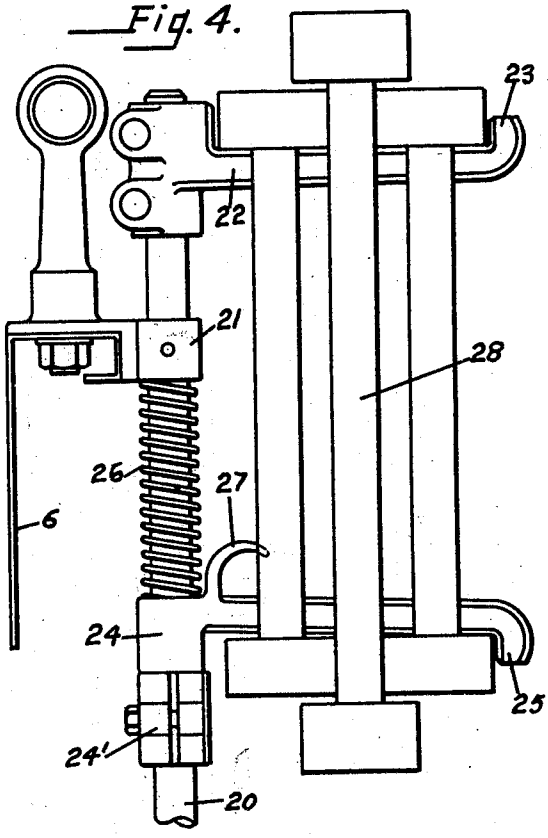


Fig. 5.

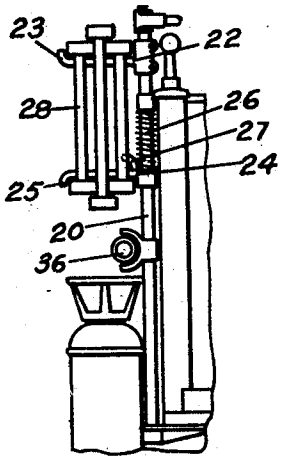
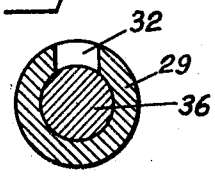


Fig. 8.



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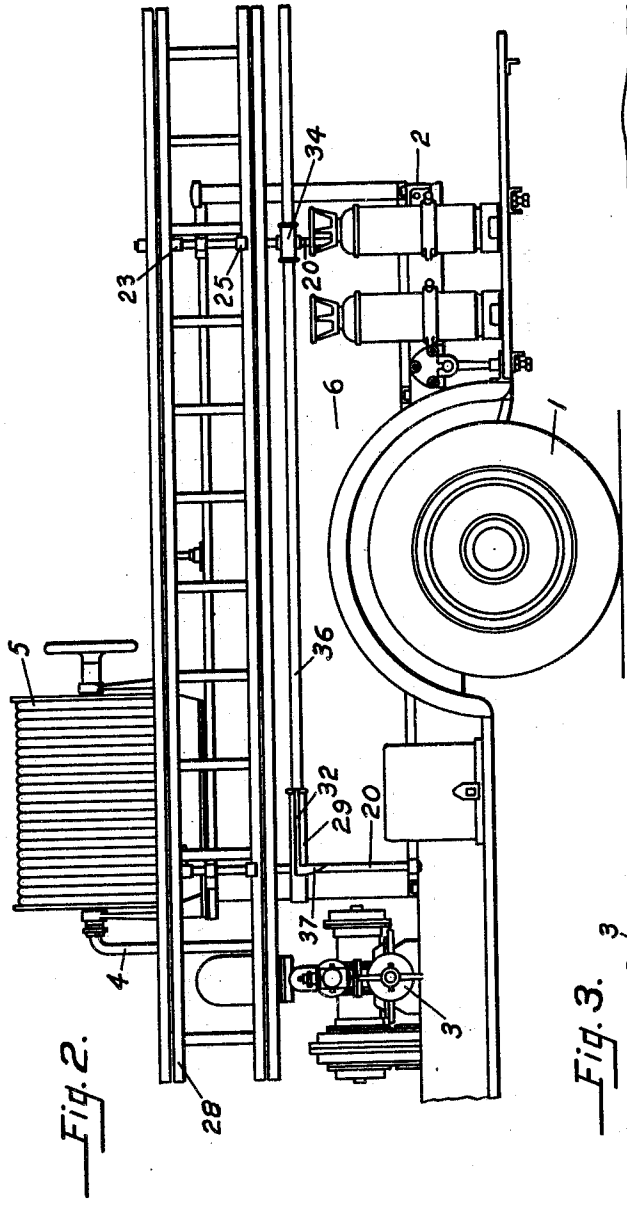


Fig. 2.

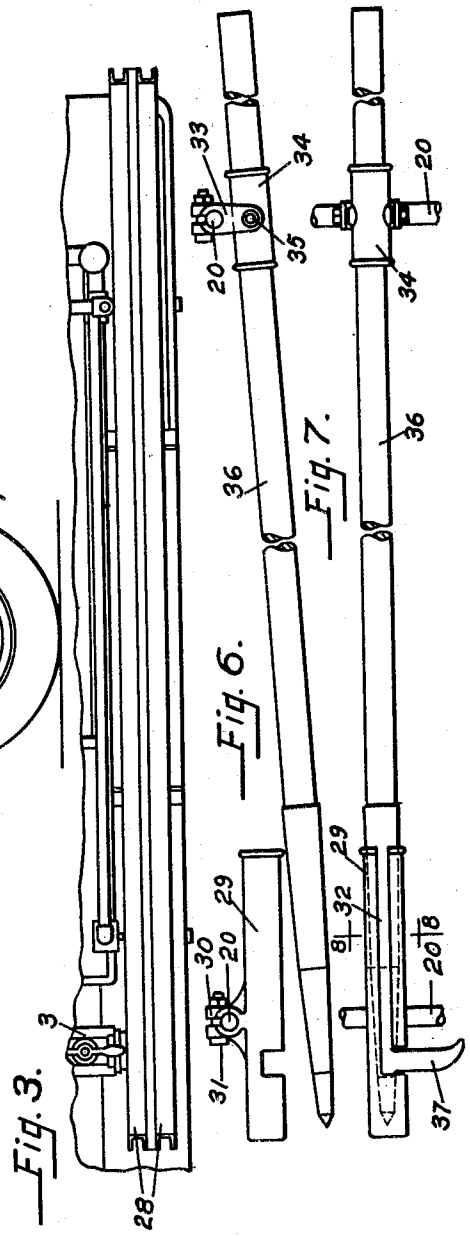


Fig. 3.

Fig. 6.

Fig. 7.

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1,890,940

UNITED STATES PATENT OFFICE

CHARLES H. FOX, OF CINCINNATI, OHIO, ASSIGNOR TO THE AHRENS-FOX FIRE ENGINE COMPANY, OF CINCINNATI, OHIO, A CORPORATION OF OHIO

FIRE ENGINE

Original application filed November 14, 1930, Serial No. 495,653. Divided and this application filed October 26, 1931. Serial No. 571,023.

This invention relates to improvements in fire trucks, and has for its object to provide new and improved means for supporting a ladder or ladders on the side of a truck body.

It is particularly the object of this invention to provide, in connection with the body of a fire truck, means for supporting a ladder in such a manner that the ladder may be easily removed from its support, or may be easily placed back on its support. For this purpose there is provided on the side of the truck body a plurality of fixed arms, cooperating with which are movable arms for gripping and holding the ladder.

It is also an object of this invention to provide, in connection with a fire truck, means for supporting a plaster pole so it may be readily removed and easily placed back in its support.

These and other advantages will appear from the following description taken with the drawings.

This application is a division of my copending application Ser. No. 495,653, filed November 14, 1930.

Referring to the drawings:

Figure 1 is a perspective view of the inside of a fire truck, showing the ladder support attached thereto.

Figure 2 is a side elevation of the rear end of a truck, showing the ladder support attached thereto and the ladder supported thereby.

Figure 3 is a top plan view of the side of the truck shown in Figure 2.

Figure 4 is an end view of a slightly modified form of ladder support.

Figure 5 is a view similar to Figure 4, showing the parts shown in Figure 4 attached to part of the truck.

Figure 6 is a top plan view of sleeve members attached to the side of the truck body for supporting a plaster pole. The pole is shown supported by one sleeve and adjacent the other sleeve.

Figure 7 is a side elevation of the plaster pole supporting sleeves with the plaster pole supported thereby.

Figure 8 is a section on the line 8—8 of Figure 7.

In Figure 2 there is shown a side view of the rear end of a truck, the wheels of which are indicated by the numeral 1, carrying a frame 2 of the usual form and type. Suitably located on the frame is a pumping apparatus 3, connected by means of a pipe 4 to a reel 5 located on top of the body, the sides of which are indicated by the numeral 6.

Suitably arranged on one side of the body and supported by one side of the body are posts 7. These posts may be attached to the side of the body in any suitable manner. On the upper end of each post is a bracket 8, suitably attached thereto, while below the upper end of each post and extending in a direction opposite to the bracket is a fixed arm 9 for supporting ladders. Each bracket 8 has two arms 10, through which a rod 11 passes. On the upper end of each rod 11 is a clamping arm 12 which cooperates with the fixed arm 9 in clamping and holding the ladder supported on the side of the truck.

Between the upper arm 10 and a ring or washer 11′ attached to the rod 11 immediately above the lower arm 10, is a spring 13. On one end of each clamping arm 12 is a hook 14, to be engaged by the hand of the operator for lifting the clamping arm to place the ladder in position on the fixed arms, or to remove the ladder therefrom. Each fixed arm and clamping arm has its end bent as at 15 to engage over the side of the ladder so the ladder will not slip off the arms.

In order to further hold the ladder 17 in position there is provided on the side of the body a clamp 16 for engaging with one of the rungs of the ladder. As shown in Figure 1, one of the posts has extending therefrom a bracket 18 for pivotally supporting a sheath or sleeve 19 which supports one end of a plaster pole. In the form shown in Figure 1 the post is flat or square. As shown in the other figures this post is round and designated by the numeral 20.

On the upper end of each of the posts 20, slightly removed from the end, is a bracket 21 attached to and supported by the body for supporting the post. The bracket may be attached to the post in any suitable manner. In the present instance it is shown to be riv-

eted thereto. On the extreme upper end of the post 20 is an arm 22 extending laterally and horizontally therefrom and terminating in an upwardly inclined or turned hook member 23. This arm serves to support the ladder. The hook 23 serves to prevent the ladder slipping off the arm.

Located beneath the bracket 21 and slidably mounted upon the post 20 is an arm 24, which extends horizontally from the post and has a downwardly extending hook member 25 which cooperates with the hook member 23 in holding the ladder in position on the side of the truck. Between the sliding arm 24 and the bracket 21 is a spring 26, which tends to force the arm 24 downwardly so it will engage the ladder and hold it in position and in cooperation with the arm 22. The arms here described engage between the ladder supports and not on the outside of them, as in the form shown in Figure 1.

In order to limit the downward movement of the sliding arm a stop 24′ is shown, suitably attached to the post so it may be adjusted longitudinally thereof to accommodate ladders of different widths. In order to facilitate the movement of the movable arm 24 it has a hook 27 thereon to be gripped by the hand of the operator. The ladder in this instance is indicated by the numeral 28. On each post 20, below the arms for supporting the ladder, is a sleeve or sheath 29 for supporting a plaster pole 36.

One of these sleeves has extending from one side thereof a clamp 30, which is clamped to the post by means of a bolt 31. By means of the bolt the position of the sleeve 29 may be adjusted on the post 20. In this sleeve or sheath is a bayonet slot 32, adapted to receive a hook 37 on the plaster pole. On another one of the posts 20 is a bracket or arm 33, clamped thereon by means of a bolt in a manner similar to clamp 30. This arm 33 is bifurcated or U-shaped and has pivoted therebetween a sleeve 34 at the point 35, so it may freely swing about the pivot point 35.

These sleeves or sheaths are for the purpose of supporting a plaster pole. There may be any number of these sleeves arranged in pairs for supporting the desired number of plaster poles. In the present instance only one pole is shown with its supports.

In supporting the plaster pole one end is inserted into the sleeve 34, after which the other end is inserted into the sleeve 29, with the hook member in the bayonet slot 32. When the hook 37 has reached the end of the slot it is rotated so the pole cannot be moved longitudinally thereof for displacement until the pole is again rotated to bring the hook in line with the horizontal part of the bayonet slot. By means of these supports for the ladder and the plaster poles these members may be easily removed and easily placed in position on the side of the truck, and when in position are securely held against rattling and falling.

It will be understood that I desire to comprehend within my invention such modifications as come within the scope of my claims and my invention.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. In a truck, a plurality of posts on said truck, a fixed arm on each post, a movable arm on each post, means operating on the movable arm to cause it, in cooperation with the fixed arm, to hold a ladder, and pivoted means on each post to support a plaster pole.

2. A plaster pole support for use on fire trucks consisting of a sleeve having a bayonet slot therein, and a supporting clamp on the sleeve.

3. A plaster pole support for fire trucks consisting of a pair of sleeves, each having a clamp thereon, and one sleeve being provided with a bayonet slot to receive a hook on one end of the pole.

4. In a truck having a body, a bracket on the body, a post attached to the bracket, an arm fixed to one end of the post, a second arm slidable on the post, and a spring on the post between the bracket and the slidable arm to force the arms apart so that the arms placed between the sides of a ladder will hold and support it.

5. In a truck, in combination with a pair of posts on the truck, ladder-clamping and holding means on each post, and a sleeve on each post for receiving and supporting a plaster pole, one of said sleeves having a bayonet slot to receive a hook on the pole.

6. In a truck having a body, a bracket on the body, a post attached to the bracket, ladder-clamping and holding arms on the post, and a sleeve on the post for receiving and holding a plaster pole.

7. In a truck having a body, a pair of clamps at each end of the body for clamping and holding a ladder and a plaster pole supporting sleeve at each end of the body beneath the clamp thereon, one of said sleeves having a bayonet slot therein to receive a hook on the pole.

8. In a truck having a body, a vertical support, a laterally extending rigid upper arm having an upwardly projecting outer end, a lower swinging arm having a downwardly projecting outer end, and yielding means for forcing said arm downwardly, whereby ladders may be supported on said arms against vertical and lateral movements.

9. In a truck having a body, a vertical support, a laterally extending rigid upper arm having an upwardly projecting outer end, a lower swinging arm having a downwardly projecting outer end, yielding means for forcing said arm downwardly, whereby ladders

may be supported on said arms against vertical and lateral movements, and means on the lower arm for grasping it, elevating it, and rotating it.

In testimony whereof, I affix my signature.

CHARLES H. FOX.