

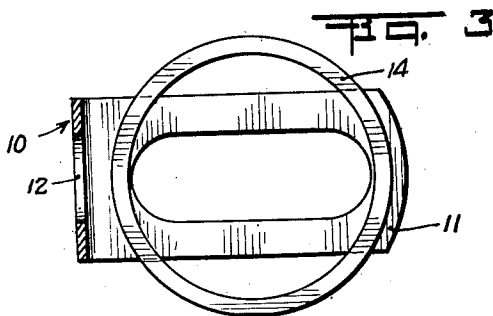
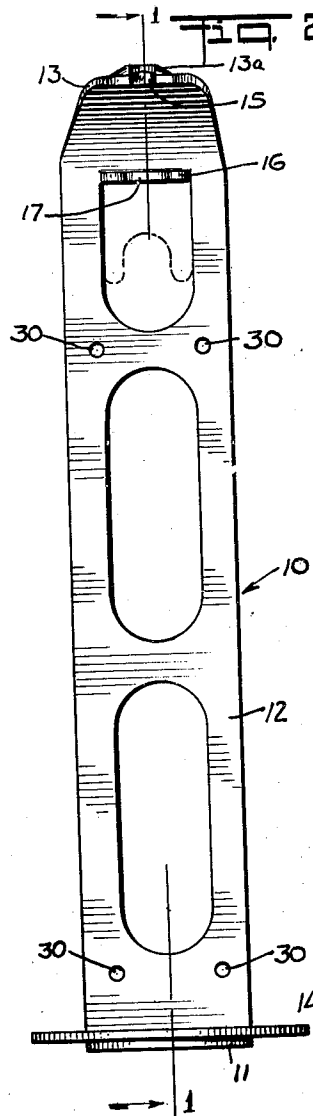
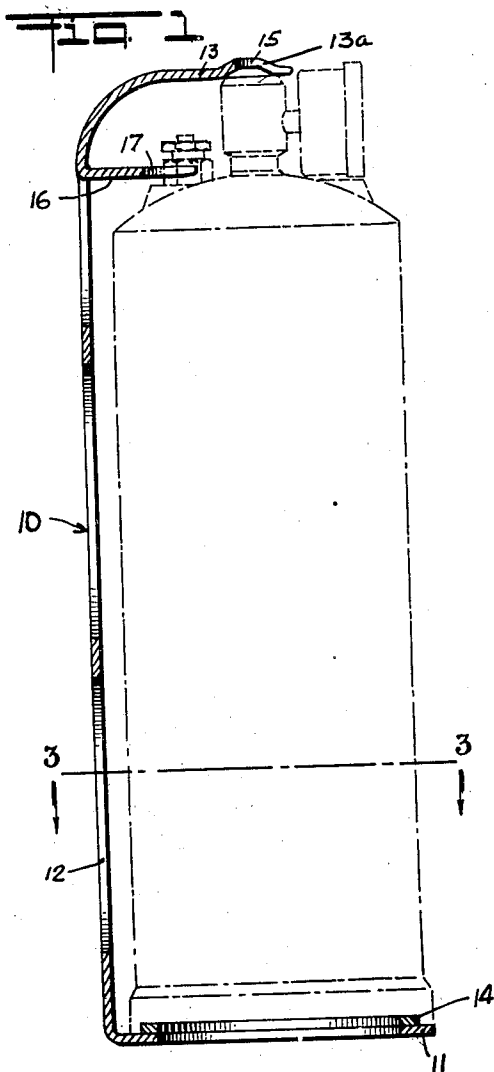
March 7, 1950

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FIRE EXTINGUISHER HOLDER

2,499,672

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2 Sheets-Sheet 1



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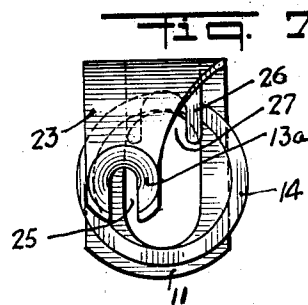
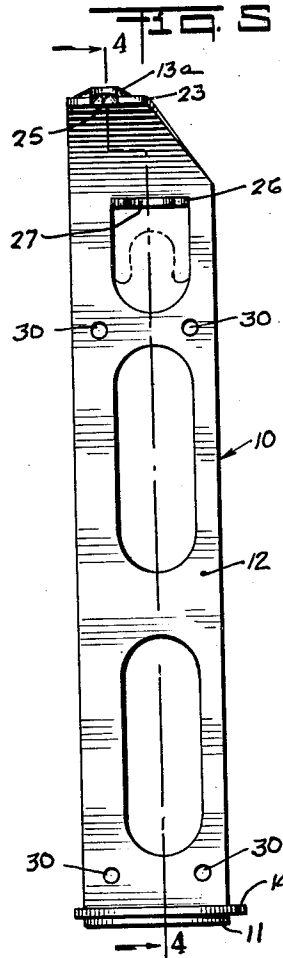
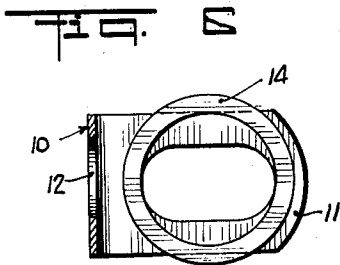
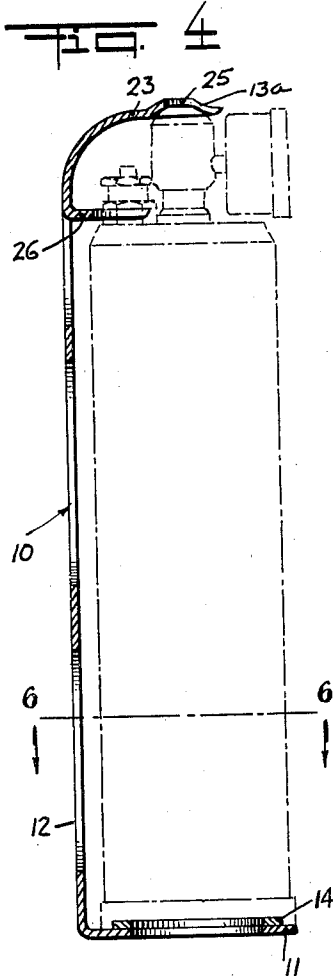
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FIRE EXTINGUISHER HOLDER

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2 Sheets-Sheet 2



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FIRE EXTINGUISHER HOLDER

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1. Claim. (Cl. 248—313)

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This invention relates to an improved holder for fire extinguishers and has as its general object the provision of a simple and efficient fire extinguisher holder which, while firmly retaining a fire extinguisher in position, will also allow the fire extinguisher to be dismounted therefrom with speed and expedition as occasion requires.

A further object of the invention is the provision of a fire extinguisher holder of the character indicated which will be extremely durable and which can be fabricated easily and at low cost from sheet metal stock of suitable thickness by a minimum number of stamping and bending operations.

Another object of the invention is the provision of a fire extinguisher holder designed and constructed in such a manner as to eliminate the necessity for lifting a fire extinguisher mounted therein bodily, the fire extinguisher being dismountable from its holder in the present instance by simply pulling the top portion of the extinguisher outwardly from the holder.

The above objects as well as additional objects and advantages will readily appear in the course of the following detailed description taken in connection with the accompanying drawings, which illustrate two embodiments of the invention, and wherein:

Fig. 1 is a sectional elevation taken along the main vertical axis of a fire extinguisher holder which embodies the features of the invention and illustrates in dot-and-dash outline a fire extinguisher mounted on the holder;

Fig. 2 is a front elevation of the holder, showing the lower holding element of the holder in dotted outline in its position in the blank before being bent to operative position;

Fig. 3 is a view of the holder taken on line 3—3 of Fig. 1 and illustrates the base of the holder with its attached holding ring;

Fig. 4 is a view similar to Fig. 1 but of a modification of the holder wherein the upper slotted holding elements are not in alignment with each other;

Fig. 5 is a front elevation of the holder illustrated in Fig. 4, showing the lower holding element in dotted outline in its position in the blank before being bent to operative position;

Fig. 6 is a view of the holder taken along line 6—6 of Fig. 4;

Fig. 7 is a top plan view of the modification of the holder illustrated in Figs. 4—6.

Referring first to the modification of the invention illustrated in Figs. 1—3 of the drawings, the fire extinguisher holder comprises a frame

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10 having a flat base member 11 and an elongated upright member 12 integral with said base member and at right angles thereto. The upper end of the upright member 12 is bent toward the central axis of the holder to form an upper holding arm 13 substantially parallel to the base member 11. The material of the frame 10 may be cold rolled steel or any other suitable material and the thickness of frame 10 as well as the dimensions of base member 11 and upright member 12 will obviously depend upon the particular size, shape and capacity of the fire extinguisher to be retained within the holder.

A holding ring 14, whose outer diameter is slightly less than the inner diameter of the bottom flange of the fire extinguisher to be retained within the holder, is fixed to the upper surface of base member 11 by riveting or in any other desired manner. Holding ring 14 serves to locate the fire extinguisher in proper position within the frame 10 and prevents accidental dislodgment of the extinguisher from the holder.

Holding arm 13 may, if desired, have a domed portion 13a for the reception of the top surface of the discharge valve assembly or analogous fitting of the fire extinguisher, said top surface being usually curved. In addition, holding arm 13 preferably has a slot or recess 15 extending inwardly from the terminal edge thereof in the region of domed portion 13a for the reception of a nut (not shown) usually affixed to the top portion of the discharge valve assembly or analogous fitting of the fire extinguisher (shown in dot-and-dash outline).

An auxiliary holding arm 16 may be struck from the upright member 12 at a suitably spaced distance from upper holding arm 13. Auxiliary holding arm 16 is preferably provided with a slot or recess 17 extending inwardly from the terminal edge thereof in a manner similar to recess 15 of upper holding arm 13 for the reception of the inlet valve assembly or analogous fitting of the fire extinguisher (shown in dot-and-dash outline). As best shown in Fig. 2, the upper holding arm 13 and the auxiliary holding arm 16 together with their respective recesses 15 and 17 are in alignment with respect to each other and with respect to the main vertical axis of the frame 10. This arrangement obtains when the respective fittings of the fire extinguisher to be received within recesses 15 and 17 lie in the same vertical plane passing through the central axis of the extinguisher. However, when said fittings do not lie in the same vertical plane referred to here-

inabove, the holder must be correspondingly modified as illustrated in Figs. 4-7.

Figs. 4-7 illustrate a modified holder designed for a fire extinguisher of smaller size and capacity than the holder illustrated in Figs. 1-3 and further for an extinguisher whose external intake and discharge fittings, which are to be received within and held by analogous upper holding arm 23 and auxiliary holding arm 26, do not lie in the same vertical plane passing through the central axis of the extinguisher. For purposes of simplification, the component parts of the holder illustrated in Figs. 4-7 are designated by the same numerals as were employed in Figs. 1-3 with the exception of upper holding arm 23 and auxiliary holding arm 26 together with their respective recesses 25 and 27. In this embodiment, as best illustrated in Figs. 5 and 7, the upper holding arm 23 and the auxiliary holding arm 26 together with their respective recesses 25 and 27 are not in alignment. Auxiliary arm 26 may be struck from upright member 12 at a suitably spaced distance below upper arm 23 but the related positions of both of said arms together with their respective recesses 27 and 25 will depend on the related positions of the external intake and discharge fittings of the fire extinguisher to be held thereby, which, in the present instance, lie in different vertical planes passing through the central axis of the extinguisher.

The holder may be fixed to a wall surface by means of screws passed through holes 30 drilled through upright member 12 or in any other desired manner.

In order to mount a fire extinguisher within the holder, the extinguisher is held with its top tilted slightly forwardly and the bottom flange of the extinguisher is positioned over and in contact with holding ring 14 mounted on base plate 11. The top of the extinguisher is then tilted rearwardly until holding ring 14 has completely entered the bottom flange of the extinguisher and the intake and discharge valves or analogous fittings at the top of the extinguisher have entered the respective aligned recesses 17 and 15 of aligned holding arms 16 and 13 or the respective unaligned recesses 27 and 25 of unaligned holding arms 26 and 23, depending upon which modification of the holder is being employed and which type of fire extinguisher, with respect to the related positions of its intake and discharge fittings, is being mounted thereon.

The extinguisher may be rapidly dismounted from the holder by the simple expedient of pulling the top portion thereof outwardly from the holder until the extinguisher fittings referred to hereinabove are free of engagement with the respective aligned recesses 17 and 15 of aligned holding arms 16 and 13 or the respective unaligned recesses 27 and 25 of unaligned holding arms 26 and 60

and 23, as the case may be. It is thus seen that, by using the holder of the present invention, the considerable advantage of eliminating the necessity for lifting the fire extinguisher bodily, as required with conventional holders, is enjoyed.

It should be noted that, while the auxiliary holding arm is not absolutely essential to the successful functioning of the holder, its presence assures an additionally firm and secure hold for the fire extinguisher mounted therein. Where an auxiliary holding arm is embodied in the design of the holder, it is important that the distance between the upper holding arm and the base member 11 whether or not an auxiliary holding arm is employed shall be such that a tight, friction hold will be exerted upon the extinguisher mounted within the holder.

Since certain modifications may be made in the fire extinguisher holder of the present invention without departing from the scope thereof, it is intended that all matter contained in the foregoing description and shown in the accompanying drawings be interpreted merely as illustrative and not in a limiting sense.

What is claimed is:

A holder for a fire extinguisher having a downwardly extending annular flange formed at the bottom thereof, and an intake fitting and a discharge fitting provided at the top end thereof, said holder comprising an upright support which is bent forwardly and horizontally at its lower end to provide a supporting base for said fire extinguisher, and bent forwardly at its upper end and bifurcated therein to provide a top holder for the discharge fitting, the bifurcated portion of said top holder being spaced to accommodate the top of the discharge fitting, a lug cut-out of said upright and bent forwardly and horizontally to provide a holder for the intake fitting, said lug being also bifurcated and being spaced to accommodate the intake fitting, and a ring-shaped member mounted on the horizontally extending base support portion of the upright and affixed thereto, said ring being smaller in diameter than the annular flange formed at the bottom of the fire extinguisher and adapted to enter the space formed by said annular flange to prevent lateral shifting of the fire extinguisher on said base.

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