Dec. 3, 1940. H. C. ZENT 2,223,980

FIRE ESCAPE

Filed Feb. 10, 1938

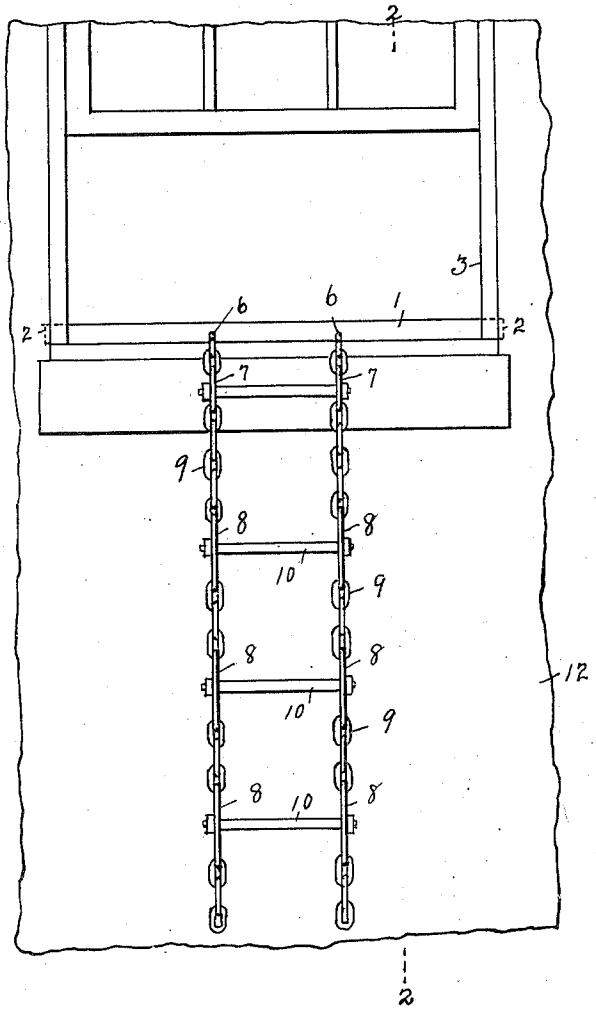


Fig. 1.

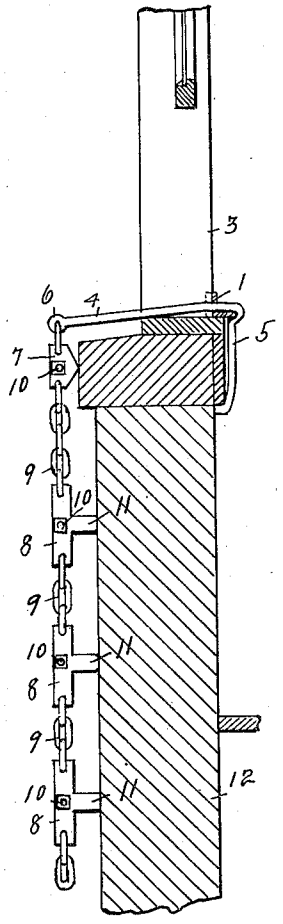


Fig. 2.

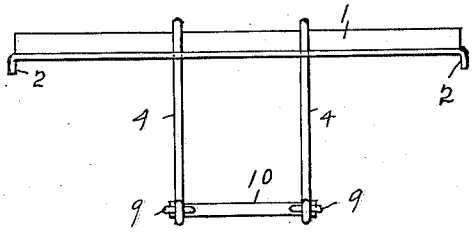


Fig. 3.

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FIRE ESCAPE

Harvey C. Zent, Keymar, Md.

Application February 10, 1938, Serial No. 189,330

2 Claims. (Cl. 228—40)

This invention relates to improvements in fire escapes, and has for its object to provide a device in the form of a folding metal ladder that can be readily and securely attached in the window frame in case of fire, and lowered on the outside of the building, and which, when in position, will be held far enough from the wall of the building to afford a safe grip, as well as a safe foot space on the rungs of the ladder.

The invention consists of the novel construction and arrangement of the parts and combination of parts hereinafter more fully set forth in the following specification and pointed out in detail in the appended claims.

In the accompanying drawing:

Figure 1 is a front elevation of a portion of a building showing my invention secured in the window frame.

Figure 2 is a vertical section on the line 2—2 of Figure 1.

Figure 3 is a detail plan view of my invention removed from the window frame.

Referring to the accompanying drawing, forming part of this specification, and in which like reference numerals designate like parts throughout the several views thereof, 1 designates an angle bar having a flange 2 on each end thereof, the said bar 1 is adapted to fit inside of a window frame 3 with the flanges 2 extending back of the sides of the window frame to hold the device in position when the ladder is in position to be used. Projecting through the upper angle of the angle bar 1, are two arms 4 which have their inner ends 5 bent downwardly to fit under the edge of the window frame, and their outer ends each provided with an eye 6 from which said eyes 6 the ladder is hung. The said arms 4 are adapted to slide back and forth in said bar 1 to accommodate them to varying widths of the window sill and also so that the downwardly-bent end 5 can be drawn in close to the inside of the window frame with the lower bent ends fitting under the lower edge of said frame. A plate 7 is suspended from the outer end of the arms 4 and is adapted to project against the window sill. The ladder can be made any desired length and is formed with a number of plates 8 connected by the chains 9. Each of said plates 8 are connected by a cross-bar 10 to form the rungs of the ladder, and each plate 8 is provided with a projection 11 which impinges against the wall 12 of the building and holds the ladder a sufficient distance from the wall to afford a safe grip as well as a safe foot space on the rungs of the ladder when it is being used, as will be seen by reference to Figure 2 of the drawing.

It will thus be seen from the foregoing that my invention can be rolled or folded up and placed in a box or other small space when not in use, and can be readily adjusted in the window when it is desired to use the same.

Having thus described my invention, what I claim is:

1. A fire escape comprising an angle bar adapted to fit inside a window frame and having its ends bent at right angles to extend around the side of said frame, rods slidable back and forth in the upper angle of said angle said bar to accommodate the width of the window sill and engage the lower angle of said angle bar to form a support for the ladder, said rods having their inner ends bent at right angles and their lower extremity bent to fit under the window sill on the inside, a ladder hung from said rods and comprising a number of plates connected together on each side by chains, and each plate having a laterally extending arm, and rods extending across the ladder and connecting the plates on opposite sides to form rungs for the ladder.

2. A fire escape comprising an angle bar adapted to fit inside a window frame and having its ends bent at right angles, two angular-shaped rods slidable back and forth in the upper angle of said angle bar and engage the lower angle to form a support for the ladder and each having one end bent to fit under a window frame, a ladder hung from said slidable rods and comprising a number of plates connected together on each side by chains and each of said plates having a laterally extending arm, and rods connecting the said plates on opposite sides thereof to form rungs for the ladder.

HARVEY C. ZENT.