Sept. 8, 1925. 1,553,279

J. WIRTH

LADDER PLATFORM

Filed July 30, 1924

Fig. 1.

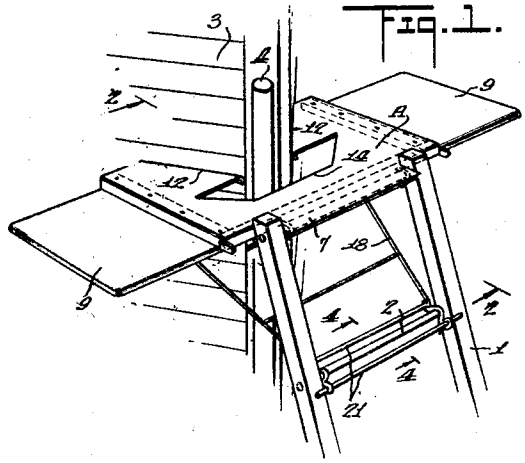


Fig. 2.

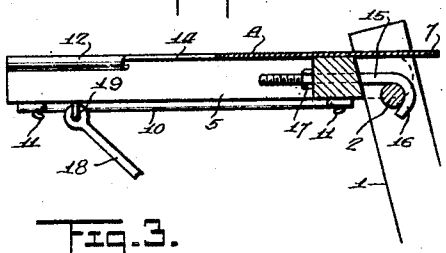


Fig. 3.

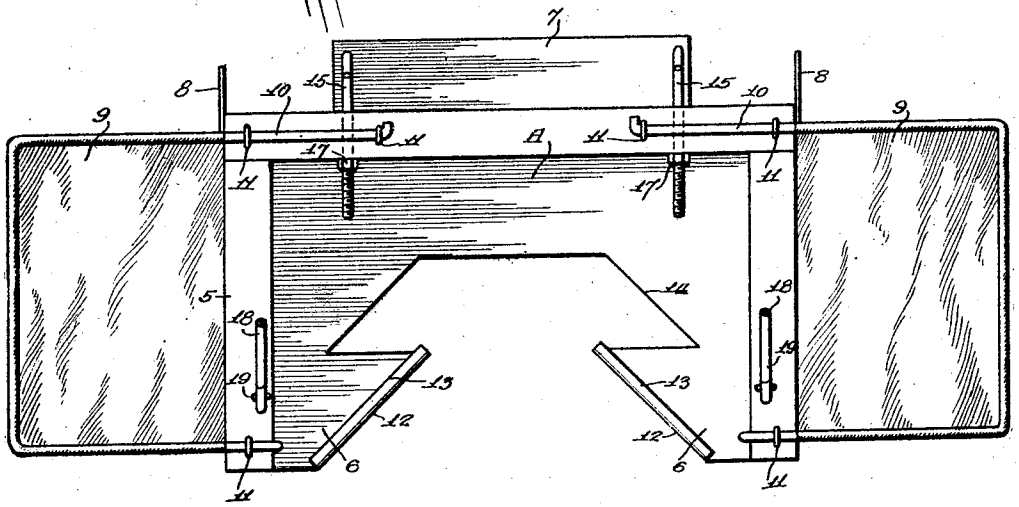


Fig. 4.

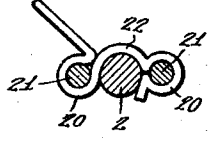


Fig. 5.

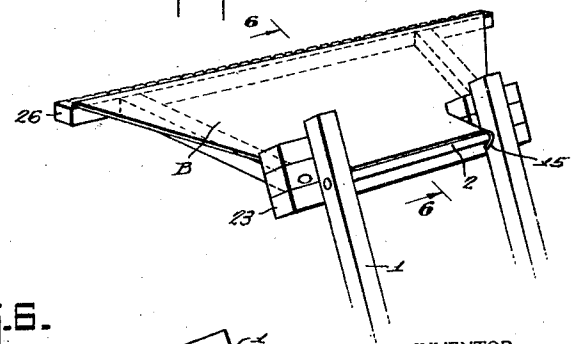
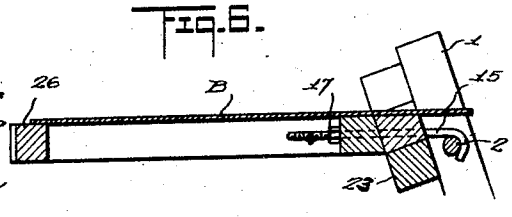


Fig. 6.



WITNESSES

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UNITED STATES PATENT OFFICE.

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LADDER PLATFORM.

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To all whom it may concern:

Be it known that I, JOHN WIRTH, a citizen of Austria, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Ladder Platform, of which the following is a full, clear, and exact description.

This invention relates to ladder platforms, an object of the invention being to provide a platform which can be removably connected to an ordinary ladder and which will not only function as a support for articles but will also act as a guide or holding means to prevent lateral displacement of the ladder and thereby prevent accidents.

A further object is to provide a platform of this character which will securely hold a ladder in position against the angle or corner of a building and which leaves ample space for access to the corner of the building either in the positioning of the drain spout, or in the painting of the corner, or any other purpose desired.

A further object is to provide a platform of this character which when secured in position results in the provision of a relatively wide step on which the workman or operator may comfortably stand during the performance of his work.

A further object is to construct a platform of this character which can be manufactured and sold at a reasonably low price and which will most efficiently perform the functions for which it is intended.

With these and other objects in view, the invention consists of certain novel features of construction and combinations and arrangements of parts which will be more fully hereinafter described and pointed out in the claim.

In the accompanying drawings—

Figure 1 is a perspective view illustrating a ladder equipped with one form of my improved platform and supported at the corner or angle of a building;

Figure 2 is a view in transverse section through the platform, the view being taken on the line 2—2 of Figure 1;

Figure 3 is an enlarged inverted plan view of the platform;

Figure 4 is an enlarged fragmentary view in section on the line 4—4 of Figure 1;

Figure 5 is a perspective view illustrating a modified form of platform;

Figure 6 is a view in section on the line 6—6 of Figure 5.

1 represents a ladder of ordinary construction having ordinary rungs 2. 3 represents a building, at the corner of which the ordinary drain spout 4 is shown. A represents my improved platform which, as illustrated in Figures 1, 2, 3 and 4, comprises a frame 5, preferably of angular form, supporting a metal plate 6, the latter having an extension 7 which projects between the parallel members of the ladder. The frame 5 is also provided with lugs 8 which are positioned parallel to the side members of the ladder and serve to hold an extension ladder against lateral movement when the latter is secured against the sides of the ladder 1. This platform A may be provided with suitable extensions 9 which may be composed of canvas or other flexible material mounted upon wire frames 10 and these wire frames may be caught under hooks 11 on frame 5 so as to hold the extensions in place.

The platform A is cut out so as to provide a pair of bearing walls 12, 12 at a right angle to each other to engage the sides of the building at the angle and to hold the ladder against lateral movement. These walls are preferably reinforced by turning back or seaming the edges of the metal as shown at 13, and back of these walls the plate is recessed as shown at 14 so as to provide a relatively large opening sufficient to expose the angle of the wall to accommodate the drain pipe 4 and provide ample space for the movement of the hands or paint brush through said opening to enable the workman to carry out his plan of operation.

To secure the platform to the ladder I provide the frame 5 with a pair of hook bolts 15, the hook ends 16 thereof engaging the upper rung 2 of the ladder, and the screw-threaded ends of said bolts receiving nuts 17 to clamp the frame against parallel or upright members of the ladder as shown most clearly in Figure 2.

As an additional support for the platform I provide a brace frame 18 which may be composed of wire or suitable material connected to eyes 19 on frame 5 and at their free ends are bent as indicated most clearly in Figure 4. By reference to this figure it will be noticed that the ends of the side members or wires of the brace frame are bent,

providing parallel eyes 20 in which parallel rods 21 are held, and between the eyes 20 the wires are curved or bent as shown at 22 so as to rest upon the rung 2 of the ladder.

The rods 21 are of a length sufficient to position their ends against the parallel upright members of the ladder with one of these rods at the front of the ladder and the other at the rear of the ladder and the bent portions 22 resting upon the rung. These rods not only serve as a support for the platform but in co-operation with the rung they provide a relatively wide step on which the operator can comfortably stand during his work.

In the modification illustrated in Figures 5 and 6 I show a platform B which is connected to the upper rung 2 of the ladder by hook bolts 15 as in the preferred form but I dispense with the brace frame 18 and provide lugs 23 fixed to the platform and engaging against the rear face of the ladder so that when the hook bolts are drawn tight the platform will be securely held.

Furthermore, in this modification I show the platform as having a notched bar 26 at its free edge so that this bar will enable the platform to rest against a glass frame and the notches will receive the ribs or framework therein and prevent pressure against the framework and also prevent lateral movement of the ladder.

While I have illustrated two forms of my invention I would have it understood that I do not limit myself to them as various slight changes and alterations might be made in the general form of the parts described without departing from my invention, and hence I do not limit myself to the precise details set forth but consider myself at liberty to make such slight changes and alterations as fairly fall within the spirit and scope of the appended claim.

I claim:

A ladder platform, comprising a plate, a bar fixed to the plate and having one face at an acute angle to the plate and adapted to rest against the uprights of the ladder, hook bolts projecting through the bar and having their hooked ends engaging a rung of the ladder, nuts on said bolts located against the bar and clamping the bar against the ladder and securing the platform at an angle to the ladder, and an extension on said plate projecting between the uprights of the ladder and covering the rung and the hooks connected thereto.

JOHN WIRTH.