

Oct. 18, 1927.

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1,645,879

LADDER AND PLATFORM SUPPORT

Filed May 14, 1927

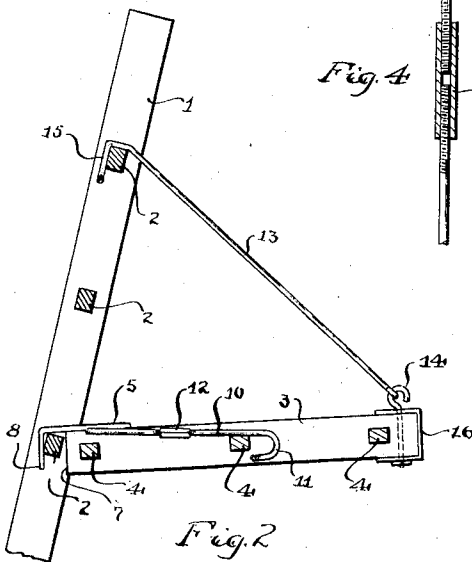
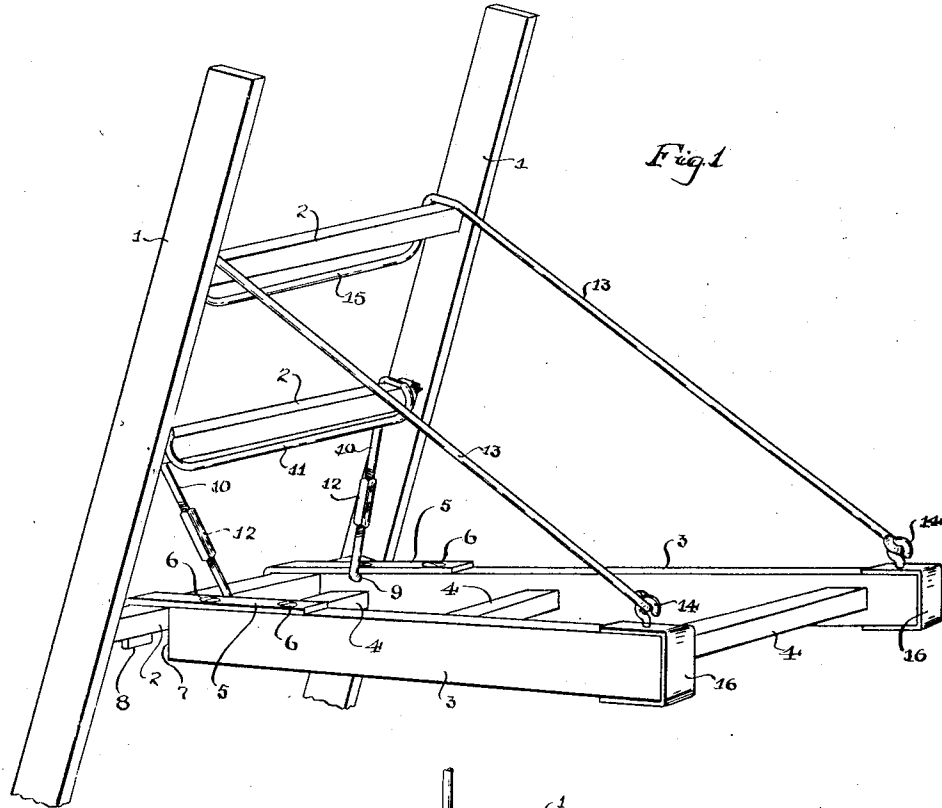


Fig. 4

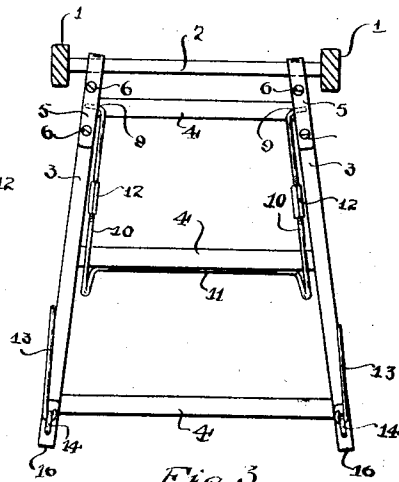


Fig. 3

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LADDER AND PLATFORM SUPPORT.

Application filed May 14, 1927. Serial No. 191,491.

The present invention relates to a ladder and platform support and an object of the invention is to provide a novel construction which may be attached to an ordinary ladder to support the latter out of contact with the wall while at the same time providing a support for a platform. Another object of the invention is to provide a construction of the class described which will have three means for engaging three distinct rungs of a ladder, one of said means acting to sustain the outer end of the support and the other two means acting to sustain the inner end of the support so that the strain imposed at the inner end will be distributed upon two rungs.

To these and other ends, the invention consists of certain parts and combinations of parts all of which will be hereinafter described; the novel features being pointed out in the appended claims.

In the drawings:

Fig. 1 is a perspective view of a ladder and platform support constructed in accordance with this invention and shown attached to a fragment of the ladder;

Fig. 2 is a central vertical section of the embodiment shown in Fig. 1;

Fig. 3 is a plan view of the support with part of the hanger for the outer end broken away, and the movable hanger at the inner end thrown forward upon the support; and

Fig. 4 is an enlarged fragmentary section of one arm of the movable hanger at the inner end of the support.

Referring more particularly to the illustrated embodiment of the invention 1 indicates the uprights of a ladder having rungs 2 connecting the same.

The combined ladder and platform support as illustrated embodies a frame having two side pieces 3 arranged in diverging relation and connected by cross pieces 4 which are of less thickness than the side pieces 3 and lie below the upper surfaces of the side pieces. At the inner ends of these side pieces, or those which are nearer together, there are provided two straps 5 bolted at 6 to the upper faces of the side pieces 3, projected beyond the ends 7 and turned downwardly at 8 in spaced relation to the ends to provide downwardly opening recesses in which one of the rungs 2 of a ladder is adapted to be received so as to hold the forward end of the support to the

ladder. It has been found that the imposing of the entire weight of the inner end of the support upon one rung of the ladder especially after such rung becomes worn is dangerous, and therefore an additional sustaining means for the inner ends of the frame of the support is provided. This additional sustaining means, in this instance, is in the form of a hanger, pivoted at 9 to the inner faces of the side pieces 3 in spaced relation to the ends 7 and having two arms 10 which are connected by a hook 11, said hook facing, when in an elevated position toward the outer end of the support and adapted to be engaged over a rung 2 immediately above the rung engaged by the straps 5. This hanger is adapted to swing inwardly in order to be received between the side pieces 3 so as to not interfere with the side pieces acting as a support for platform boards. It is also preferred to make the hook portion 11 of the hanger adjustable with relation to its pivots 9 and to this end the arms 10 of the hanger are divided into two sections each, the two sections being provided with right and left hand threads for engagement by a turn buckle 12. This adjustment not only accommodates the hanger to ladders having different distances between their rungs but it also takes up for wear on the rungs.

The outer end of the support is sustained by a hanger comprising preferably two arms 13 pivotally connected to eye bolts 14 secured to the side pieces 3 near the outer ends of the latter, said arms being connected by a hook 15 at their outer ends. The hook is adapted to engage the rung 2 above the rung engaged by the hook 11. The arms 13 lie in spaced relation to the side pieces 3 so that the upper faces of the side pieces may be used to sustain boards making up a platform and also resting upon a like support of another ladder. The eye bolts 14 pass through the side pieces 3 and also serve to secure bumpers 16 made of rubber or other yielding material and passed about the outer ends of the side pieces and over the upper and lower surfaces thereof so that the eye bolts 14 pass therethrough.

From the foregoing it will be seen that there has been provided a combined ladder and platform support. This support will hold a ladder in spaced relation to a building, the cushioned ends 16 engaging the

building while a rung of the ladder engages the ends 7 of the side pieces. The hanger for the outer end of the support sustains said support in operative connection with the ladder. A novel means is provided for holding the ends of the side pieces in abutment with the rung of a ladder and an additional sustaining means for the inner end of the support cooperates with a rung above that engaged by the ends of the side pieces.

What I claim as my invention and desire to secure by Letters Patent is:

1. A ladder and platform support comprising two side pieces connected in diverging relation, straps fastened to the upper faces of the side pieces adjacent the ends that are nearer together, said straps having depending portions spaced from the ends of the side pieces to provide rung receiving recesses between the depending ends of the straps and the ends of the side pieces, and a hanger pivotally connected to the side pieces on the upper sides thereof adjacent the outer ends of such side pieces, but spaced from said ends so as to leave the ends free to act as abutments, said hanger having a hook at its swinging end to engage a rung

of a ladder above the rung engaged by the straps.

2. A ladder and platform support comprising two side pieces connected together, means at the inner ends of said side pieces for supporting said side pieces from a ladder rung, a hanger for engagement with a rung above that engaged by the first named means, eye bolts to which said hanger is pivotally connected, and cushions held on the outer ends of the side pieces by said eye bolts.

3. A ladder and platform support comprising a frame, rung engaging means at the inner end of the frame for cooperating with a rung of a ladder, a hanger pivotally connected to the outer end of the frame and having a hook portion adapted to engage a rung of a ladder above the rung engaged by the first mentioned rung engaging means, and a second hanger pivotally connected to the frame adjacent the inner end of the latter and having a hook portion for engagement of a rung between the rung engaged by the rung engaging means and the first mentioned hanger.

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