No. 693,641. Patented Feb. 18, 1902.

H. B. CRAMER.

STAGING BRACKET OR SUPPORT.

(Application filed July 26, 1901.)

(No Model.)

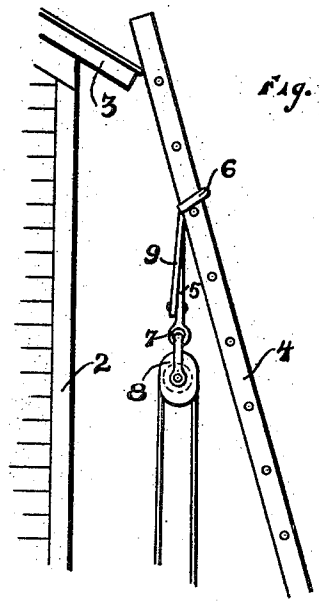


Fig. 1.

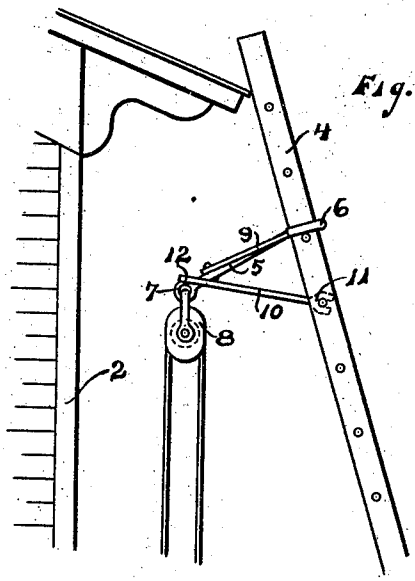


Fig. 2.

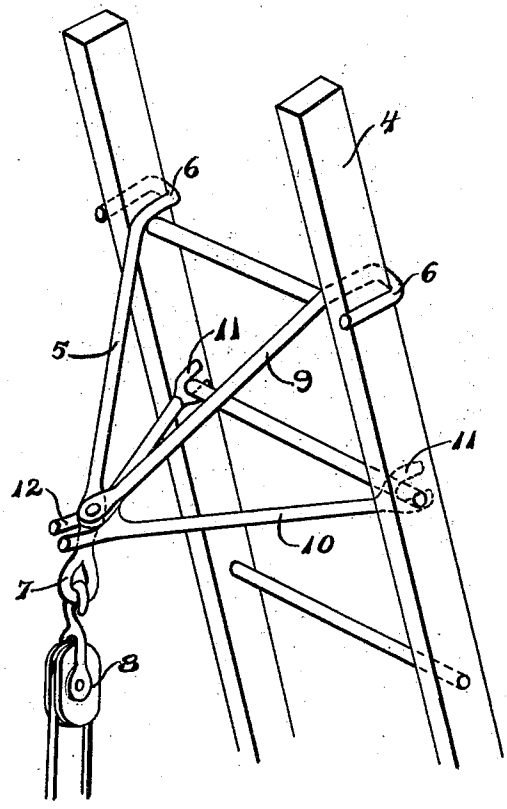


Fig. 3.

WITNESSES.
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UNITED STATES PATENT OFFICE.

HARRY B. CRAMER, OF MINNEAPOLIS, MINNESOTA.

STAGING BRACKET OR SUPPORT.

SPECIFICATION forming part of Letters Patent No. 693,641, dated February 18, 1902.

Application filed July 26, 1901. Serial No. 69,741. (No model.)

To all whom it may concern:

Be it known that I, HARRY B. CRAMER, of Minneapolis, Hennepin county, Minnesota, have invented certain new and useful Improvements in Staging Brackets or Supports, of which the following is a specification.

This invention relates to devices for the use of painters while working on buildings of such height that a single ladder or a ladder with an extension resting upon the ground may be employed.

The object of the invention is to provide means for supporting the staging to enable the painters to begin at the top of the building-wall and paint a strip the length of the staging or the distance between the supporting-ladders from the top of the wall to the bottom without the necessity of moving the supports on the ladders.

A further object is to provide means for supporting a staging which will enable the workmen to adjust their staging within convenient reach of a building-wall regardless of the width of the cornice.

Other objects of the invention will appear from the following detailed description.

The invention consists generally in various constructions and combinations, all as hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a side elevation of the invention in use on a building having a narrow cornice. Fig. 2 is a similar view showing the device in use on a building with a wide cornice. Fig. 3 is a perspective detailed view of the device.

In the drawings, 2 represents the wall of a building of such height that its walls can be easily reached by means of a ladder resting on the ground and having a comparatively narrow cornice 3.

4 represents a ladder that is provided at one end of the staging and whereon I arrange my staging-support. In the drawings I have shown only one ladder, as it will be understood that the other ladder at the opposite end of the staging will correspond substantially to the one shown and will support the staging-bracket in a similar manner.

The bracket which I prefer to employ consists of an arm 5, having at one end a hook 6 to pass over the ladder-rung and partially encircle the rail of the ladder and at its opposite end provided with an eye 7, to which the block-and-tackle equipment 8 is connected.

9 represents the opposite arm of the support or bracket, having a hook at one end to encircle the ladder-rail and at its opposite end pivoted to the arm 5, near the eye 7.

In painting the wall of a building having a narrow cornice the device will be attached to the ladder near the top of the same, and the staging being suspended at its ends by the block-and-tackle equipment the painters can readily lower the staging as fast as the wall is painted without the necessity of leaving the staging to change the position of the bracket. The arms 5 and 9 being supported by the ladder-rails will render the staging more secure than it ordinarily is when almost the entire weight is sustained by the ladder-rungs. The pivotal connection of the arms 5 and 9 will permit the adjustment thereof to ladders of different width.

Where houses or other buildings have wide cornices, it is desirable to provide means for swinging the staging away from the ladder and bringing it nearer the wall of the building to permit the painters to reach their work more conveniently. I therefore prefer to provide a brace 10, V-shaped in form, having forks 11 at the ends of its legs to engage the ends of the ladder-rungs between the rails and at its apex a fork 12 to straddle the arm 5 between its eye and the pivotal point of the arm 9. This brace will swing the arms or legs 5 and 9 out away from the ladder to the position shown in Fig. 3, which will be sufficiently near the building-wall to enable the workmen to prepare the wall for painting or to carry on the painting operation. This bracket being secured on the ladder near the top of the same will not subject the ladder to such strain as the ordinary staging would that is adjusted along the ladder as the staging is moved. Furthermore, the staging being swung in toward the building from the ladder will be more secure and the ladder less liable to tip out away from the building than when the staging is supported in the usual manner.

The device is not confined in its use to painters, as it is equally adapted for carpenters or other workmen who may employ a

staging supported upon ladders that rest upon the ground and the side of the building.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with a ladder, of the arms or legs 5 and 9 pivotally connected and having hooked ends 6 to clasp the ladder-rails, an eye provided on one of said arms, and a V-shaped brace having forks 11 to engage the ladder-rung below said hooked ends, and a fork 12 to straddle one of said arms between said eye and its hook, substantially as described.

2. A staging-bracket, comprising legs adapted to rest upon the ladder-rung and having outwardly-turned ends to clasp the rails thereof, said legs being pivotally connected to permit adjustment of the bracket to ladders of different width, and a block-and-tackle attachment provided on said bracket near the pivotal connection of its legs, substantially as described.

3. A V-shaped staging-bracket, comprising legs 5 and 9 adapted to rest upon a ladder-rung and having outwardly-turned ends to clasp the rails thereof, said legs being pivotally connected to permit adjustment of the bracket to ladders of different width, a block-and-tackle attachment provided near the pivotal connection of said legs, and a brace adapted to be placed between the ladder and said block-and-tackle attachment.

4. The combination, with a ladder, of a V-shaped bracket, comprising legs 5 and 9 adapted to rest upon the ladder-rung and having hooked ends to clasp the rails thereof, said legs being pivotally connected to permit the adjustment of the bracket to ladders of different width, a block-and-tackle attachment provided on said bracket near the pivotal connection of said legs, and a V-shaped brace adapted to engage the ladder-rung below said hooked ends and having a fork to straddle the apex of said bracket, substantially as described.

5. The combination, with a ladder, of a V-shaped bracket, comprising legs adapted to rest upon a ladder-rung and having means for engaging the rails thereof, said legs being pivotally connected to permit the adjustment of said bracket to ladders of different width, and a block-and-tackle attachment provided on said bracket near the pivotal connection of its legs, substantially as described.

In witness whereof I have hereunto set my hand this 23d day of July, 1901.

HARRY B. CRAMER.

In presence of—
RICHARD PAUL,
M. C. NOONAN.