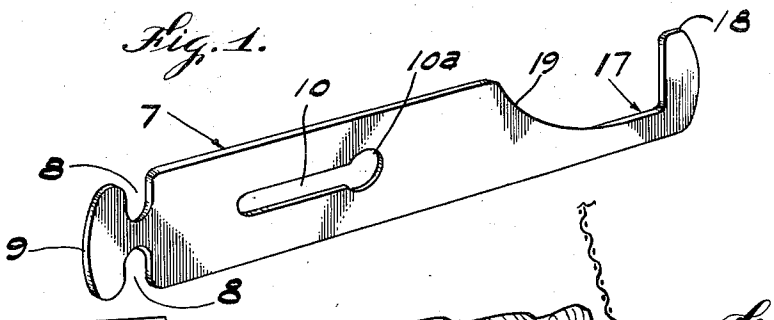
May 29, 1951 F. MAGNETTI 2,554,675

LADDER BRACKET

Filed Sept. 12, 1949

Fig. 1.



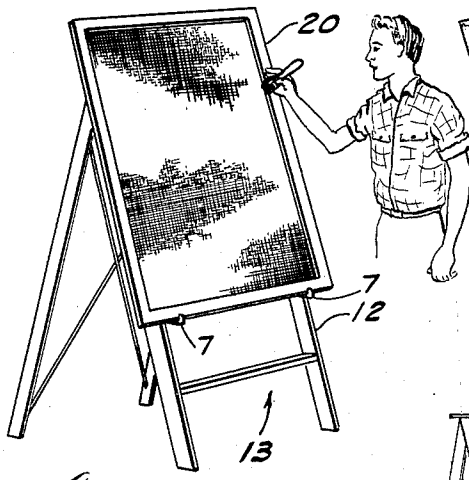
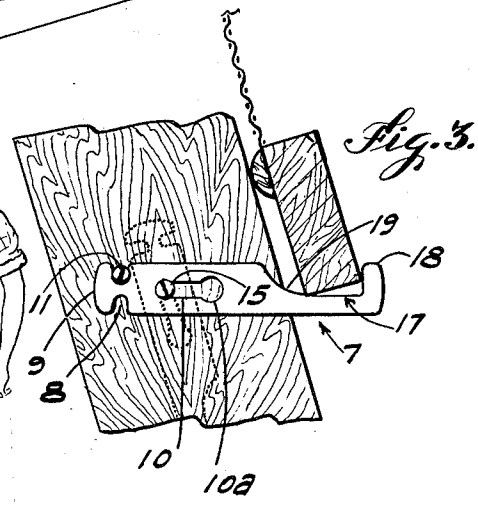


Fig. 2.

Fig. 3.



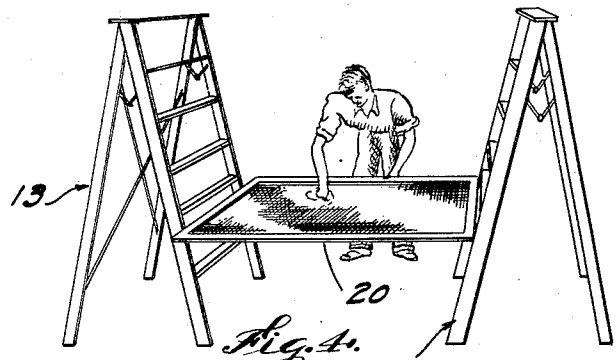


Fig. 4.

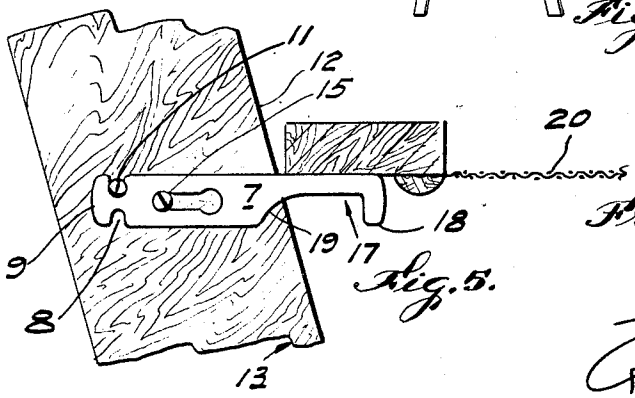


Fig. 5.

Frank Magnetti
INVENTOR.

BY

R. L. Barlow
ATTORNEY.

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UNITED STATES PATENT OFFICE

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LADDER BRACKET

Frank Magnetti, Los Angeles, Calif.

Application September 12, 1949, Serial No. 115,124

1 Claim. (Cl. 248—210)

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This invention relates to a work supporting bracket mountable on a step ladder.

An important object of this invention is to provide an exceedingly simple attachment applicable in pairs to step ladders so as to utilize such ladders as the main supports for pieces of work, for example, for painting and cleaning window screen frames, and the like.

The device is particularly well adapted to be used in conjunction with a ladder as an aid to support window screens for painting and repairing, because the same ladder that is used by a workman to obtain access to a screen to remove it is utilizable, when equipped with this device, to support the window screen in a position in which it can be conveniently worked upon as required. Without the use of the device it would be necessary to transport the screen, after removal from the window, to a more or less distant work bench.

A more specific object of the invention is to provide for application to ladders, and more particularly to step ladders, a simplified bracket consisting of a one piece, elongated, rigid plate which can be securely attached to the ladder in several different adjusted positions so as better to adapt it for supporting different kinds of objects to be worked on, and which, when not used to support work, can be attached to the ladder in a latched on fashion which safeguards it against being lost.

Other objects, advantages and features of invention will hereinafter appear.

Referring to the accompanying drawing, which illustrates a preferred embodiment of the invention,

Fig. 1 is a perspective view showing one of the brackets per se and on a larger scale than it appears in the remaining views.

Fig. 2 is a perspective view showing the invention applied to a single step ladder to support a window screen sash in an upstanding position.

Fig. 3 is a fragmentary side elevation, on a larger scale than Fig. 2, showing one of the brackets mounted on the inner side of one of the legs of a step ladder in a position to support an upstanding screen frame or other frame while resting upon the bracket and leaning against the ladder, it being understood that the bracket shown has a mate cooperating therewith. Dotted lines indicate the position to which the bracket is adjusted when not in use.

Fig. 4 is a perspective view, on a somewhat smaller scale than Fig. 2, illustrating a screen-carrying frame supported by and between two step ladders in a position to be cleaned.

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Fig. 5 is a fragmentary side elevation, on the same scale as Fig. 3, looking at the inner side of one of the legs of the ladder in the left hand portion of Fig. 4, illustrating how each of the paired brackets will be positioned to support the work in the horizontal manner shown in the latter view.

Referring in detail to the drawing, the one piece bracket 7 which in the main forms the subject matter of this invention, consists of an elongated, strap-like plate of heavy, rigid sheet material having a pair of opposite recesses 8 in the edges of one end portion thereof, thus marking off a head 9 at that end of the bracket.

The bracket 7 also has through it, along its midwidth, a longitudinal slot 10 of the keyhole type, which is spaced considerably away from its said recesses 8 and which has its circular enlargement 10a in that end of the slot which is farthest from said recesses.

The aforesaid recesses 8 selectively cooperate with a headed screw 11 which projects internally from the leg 12 of the step ladder 13 shown in Fig. 2 and in the left hand portion of Fig. 4, at about two feet above the lower end of said ladder, so that the brackets may be horizontally supported by said screws either as shown in Fig. 3 or in Fig. 5.

With each already mentioned screw 11 cooperates, at each side of the ladder, a second like screw 15 which projects internally from the same ladder leg, but which, when the ladder is in its upstanding position is located considerably forward of the screw 11 and slightly below the level thereof.

Each bracket 7 is provided, adjacent to that end portion thereof which is opposite to its head 9, with a spacious cut-out 17 so located and contoured as to produce a terminal hook or finger 18 projecting at a right angle from one side of the bracket. The inner end portion of said cut-out is shown beveled at 19.

It will now be seen that, in order to support a window screen frame 20 in an upstanding, somewhat inclined position as shown in Figs. 2 and 3, the workman may apply the brackets by so moving each bracket as to cause the head of the screw 15 to pass through the bracket's slot enlargement 10a while the bracket is positioned with its finger 18 directed upwardly and head 9 spaced downwardly from the other screw 11, and then, after sliding the bracket till the screw 15 abuts the opposite end of the slot 10, he may swing the bracket to its mounted position wherein the shank of the screw 11 engages the upper recess 8. The brackets will thus be mounted in locked positions because the heads of the screws

will prevent their displacement, and their upwardly projecting fingers 18 will effectively hold in place the frame 20, the lower edge of which will rest in the bracket cut-outs 17.

It will now be obvious how to mount the brackets so as to support the frame 20 in the horizontal position shown in Figs. 4 and 5, a second ladder 21 being shown in the latter view to which also a pair of the brackets 7 is applied in the position illustrated in Fig. 5, in which position the bracket fingers 18 are directed downwardly instead of upwardly so as to present flat surfaces to the horizontally supported frame.

It is obvious that the slot 10 through the bracket may be variously contoured without departing from the spirit of the claimed invention, the important thing being that it have one end portion wider than the other so as to receive a screw head of greater diameter than the width of the latter end portion of the slot.

I claim:

In a ladder bracket, an elongated plate provided with a straight slot directed longitudinally within its intermediate part and enlarged at one end for detachable and inverted sliding connection of the plate with a headed projection on a side of a ladder, said plate having a recess in one longitudinal edge forming a hook at one end of the plate, the opposite end portion of the plate having opposed transversely directed recesses for engagement with a second projection on the ladder.

FRANK MAGNETTI.

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