March 21, 1939. E. J. MOBERG 2,151,135

LADDER PLATFORM

Filed July 31, 1937 2 Sheets-Sheet 1

Fig. 1.

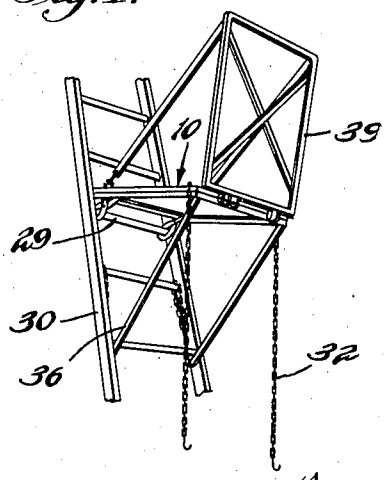


Fig. 2.

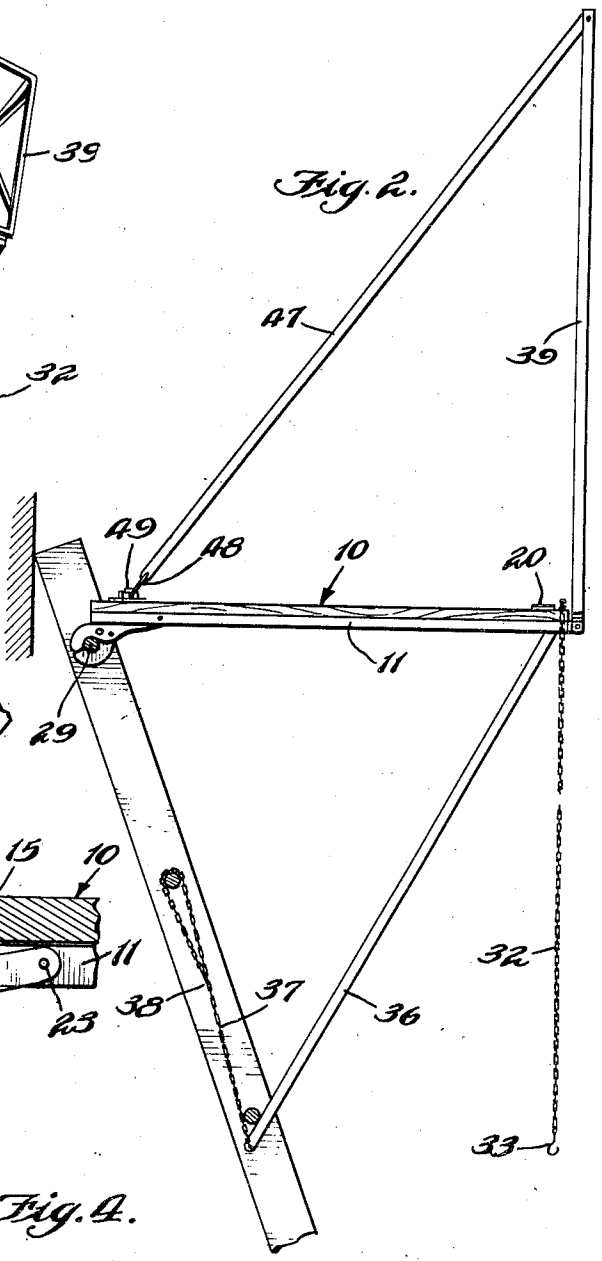


Fig. 3.

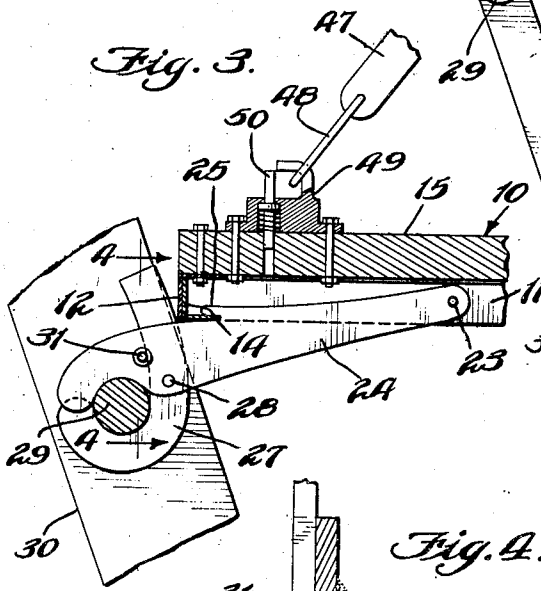
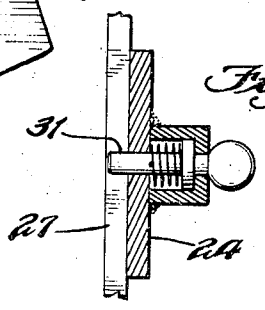


Fig. 4.



Inventor.

Enoch J. Moberg.

March 21, 1939. E. J. MOBERG 2,151,135

LADDER PLATFORM

Filed July 31, 1937 2 Sheets-Sheet 2

Fig. 5.

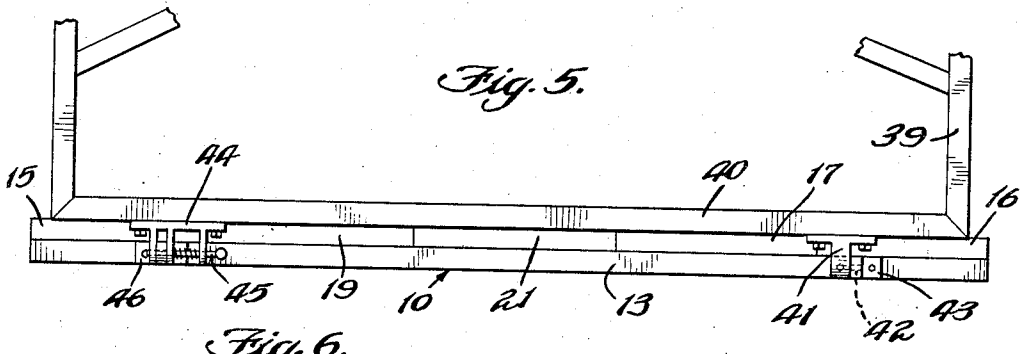


Fig. 6.

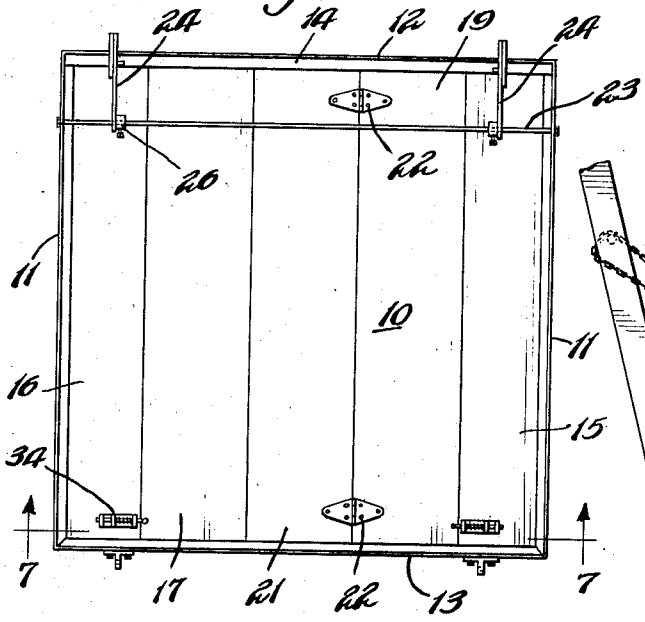


Fig. 8.

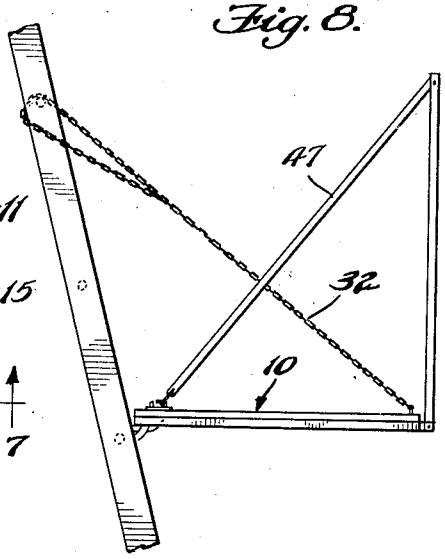
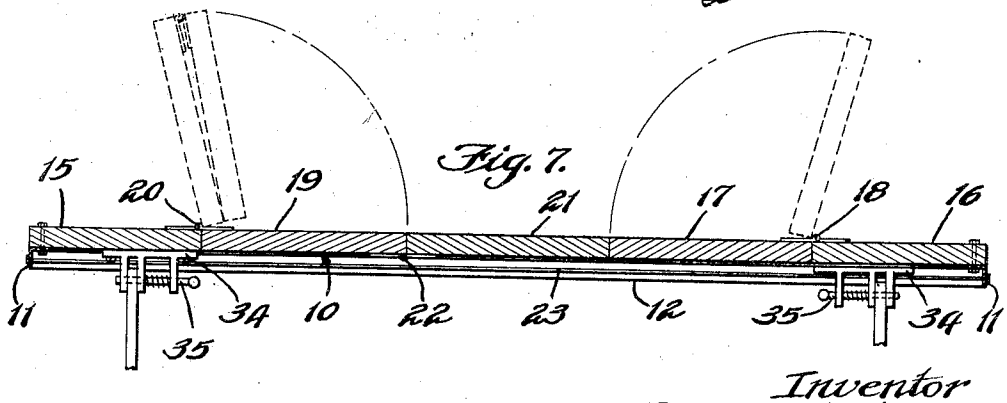


Fig. 7.



Inventor

Enoch J. Moberg

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UNITED STATES PATENT OFFICE

2,151,135

LADDER PLATFORM

Enoch J. Moberg, Evanston, Ill.

Application July 31, 1937, Serial No. 156,765

2 Claims. (Cl. 304—10)

My invention relates to ladder platforms.

The general object of my invention is to provide a platform or unitary scaffold that may be readily attached to the rungs of a ladder in such a manner as to be supported from either the upper or lower rungs with respect to the plane of the platform, the platform having hinged floor portions whereby the workman may climb through the opening thereof to reach the upper side in a perfectly safe manner.

Other objects and advantages will become apparent and be brought out more fully in the following specification, reference being had to the accompanying drawings, wherein

Fig. 1 is a perspective view of my invention and a portion of a ladder to which the same is secured.

Fig. 2 is a side elevation of the same shown with one of the ladder rails removed.

Fig. 3 is a further enlarged fragmentary view illustrating the parts of the platform and the front clamp.

Fig. 4 is an enlarged sectional view taken along the line 4—4 of Fig. 3.

Fig. 5 is an elevation of the rear edge of the platform and a portion of the guard frame.

Fig. 6 is a view of the under side of the platform.

Fig. 7 is a sectional view taken along the line 7—7 of Fig. 6, and

Fig 8 is a side view illustrating a modified method of support.

Referring more particularly to the drawings, I show a platform 10 consisting of a rectangular frame preferably of structural angle irons wherein it has side angles 11, front angle 12, rear angle 13, and an auxiliary angle 14. A floor board 15 is secured to one of the side angles 11 in any suitable manner as by bolts or otherwise, its ends resting on front and rear angles 12 and 13. A similar floor board 16 is secured in like manner to the other side angle 11. A floor board 17 likewise extending from front to back is pivotally connected to board 15 by a pair of hinges 18 and a floor board 19 similarly pivoted by hinges 20 to floor board 15, the hinges 18 and 20 being on the upper sides of the boards so that boards 17 and 19 can be swung upwardly, forming an opening through which a workman may pass to reach the upper side of the platform. A center board 21 is hinged at 22 on the under side to the free edge of floor board 19, by which arrangement the floor boards 17, 19 and 21 may be of minimum width and thus not require excessive vertical space when swung upwardly as will be clear from Fig. 7.

A cross rod 23 is supported by side angles 11 near front angle 12 and a pair of rung clamps 24 are slidably mounted thereon and on auxiliary angle 14, the clamps each having a slotted extension 25 engaging the rearwardly extending flange of angle 14. Clamps 24 are obviously adjustable to fit ladder rungs of different lengths and a pair of wing screw secured collars 26 may be employed on rod 23 to prevent clamps 24 from sliding along rod 23. Clamps 24 are each provided with a lock jaw 27 pivoted thereto at 28 and adapted to clamp a rung 29 of a ladder having side rails 30. A spring-held lock pin extends through an aperture in clamp 24 and prevents the opening of lock jaw 27 except when retracted.

As shown in Fig. 8 a pair of chains 32 are suitably secured to the rear portion of the platform and the free ends of the chains looped around one of the upper rungs of the ladder and secured and held by S-hooks 33.

A modified form of support is shown in Figs. 1, 2 and 6, wherein a bracket 34 is secured to the under portion of the platform, each bracket having a retractable spring-held pin 35 which forms a pivot for a brace rod 36, the opposite end of which is provided with a snub chain 37, having an S-hook 38 for snubbing around a rung of the ladder as particularly shown in Fig. 2.

As an additional feature of my invention I show a guard frame 39 having a lower member 40 to which is secured a pin bracket 41 having a pin 42 adapted to be slipped into a recessed bracket 43 on rear angle 13. A pin bracket 44 is similarly secured to member 40 and is provided with a spring-held pin 45 which engages an apertured bracket 46 on angle 13. Side guides 47 are suitably pivoted to the upper portion of frame 39 and their lower or forward ends are provided with terminal loops 48 adapted to be detachably secured to hooks 49 secured to the forward end of the platform. A spring lock pin 50 is associated with hook 49 so as to prevent accidental release of loops 48, except when manually operated. It will thus be seen that the guard frame 39 can be swung down out of the way or even removed entirely from the platform if not desired. It will also be apparent that by the use of brace rods 36 the platform can be secured with the rung clamps 24 on the uppermost rung of the ladder as shown in Fig. 2. It will furthermore be clear that the platform may be secured on a ladder by the workman as he ascends, all

adjustments being made with his hands, and that he can, after it is secured, pass through the hinged floor and obtain a safe and secure as well as comfortable resting place.

Having described my invention, what I claim is:

1. A device as described, comprising a rectangular frame, a pair of clamp members extending from an edge thereof adapted to be clamped to a rung of a ladder, a platform on said frame, and supporting means secured adjacent an edge opposite to said first mentioned edge, said means including brace members having securing chains attached to the free ends thereof, said chains adapted to be secured to a rung of said ladder.

2. A device as described, comprising a rectangular frame, a pair of adjustable clamp members extending from an edge thereof, a three section platform on said frame, two of said sections being hinged to said frame along opposite edges thereof, and a third section hinged to one of said last mentioned sections, and supporting means secured adjacent an edge opposite to said first mentioned edge.

ENOCH J. MOBERG.