March 18, 1924. 1,487,243

E. C. JACKSON

COMBINED LADDER STEP AND SCAFFOLD SUPPORT

Filed May 9, 1923

Fig. 1

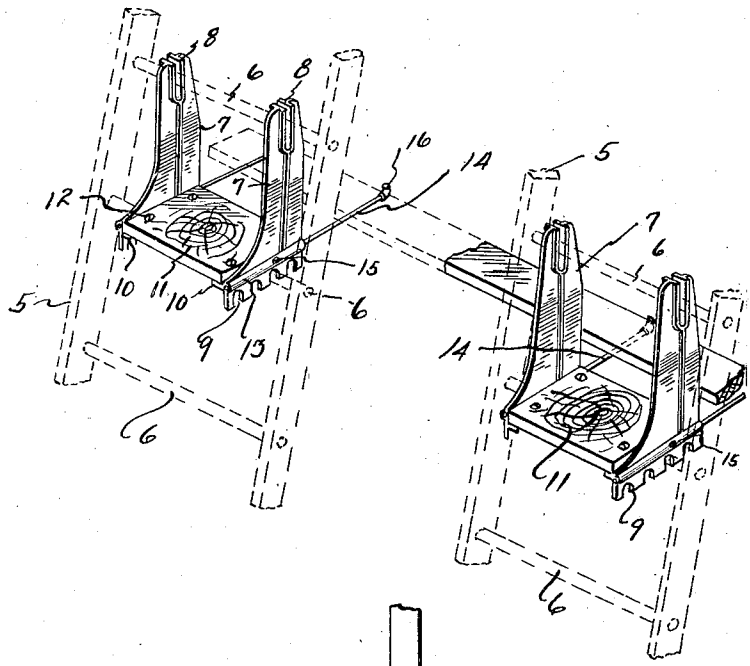


Fig. 2

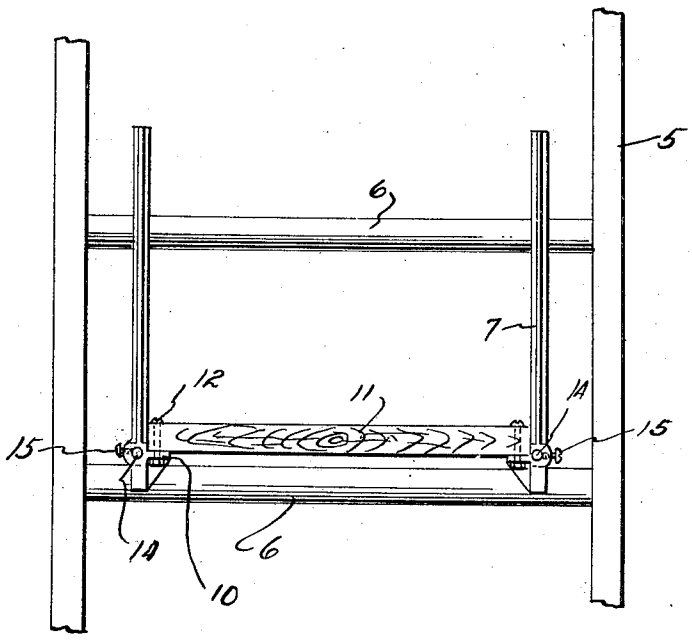


Fig. 3

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UNITED STATES PATENT OFFICE.

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COMBINED LADDER STEP AND SCAFFOLD SUPPORT.

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To all whom it may concern:

Be it known that I, EDWARD C. JACKSON, a citizen of the United States, and residing at Detroit, in the county of Wayne and State of Michigan, have invented a new and Improved Combined Ladder Step and Scaffold Support, of which the following is a specification.

My invention relates to improvements in scaffolding and is illustrated as specifically embodied in an improved combined ladder step and scaffold support.

The object is to provide in combination with a ladder a detachable adjustable step of the platform type which is adapted to be quickly and securely attached between any pair of rungs of a ladder to be carried thereby and which is provided with suitable arms that extend outwardly from the ladder on the opposite side from the step to support an auxiliary removable platform. These arms may serve in conjunction with the arms of a second similar step carried by another ladder to support a plank of scaffolding extending between the two ladders.

In the specific embodiment illustrated I have shown a platform step the end members of which are adapted at opposite ends to be received between any pair of rungs of the ladder at adjustable positions, the step projecting outwardly on one side from the ladder and the end members provided with adjustable removable arms which extend away from the ladder on the side opposite the step to support an auxiliary removable platform.

In the drawings,—

Figure 1 is a perspective of my improved scaffolding construction carried by a ladder.

Fig. 2 is a perspective of a similar construction carried by a second ladder, a plank being shown in dotted outline supported between the two ladders.

Fig. 3 is an enlarged front elevation of the ladder provided with an improved step.

Let 5 indicate the stringers of a ladder provided with rungs 6. Between any pair of rungs my improved scaffolding member may be supported. My scaffolding construction or improved step consists of a pair of end pieces 7 which may preferably be formed of metal shaped as shown in the drawing and the upper end of each piece forked as at 8 to receive a rung 6. The lower edge of each side member is provided with a plurality of notches 9 each one of which is adapted to seat over a rung 6 of the ladder so as to provide for adjustment of position of the step. The step may be inserted between a pair of rungs by engaging the forks 8 over a rung 6. These forks are of such a length that the step may be inserted sufficiently over the rung 6 to permit of swinging the step between a pair of rungs and the step may then be lowered to engage one of the notches 9 over the lower rung of the pair. Lowering of the step for this distance will not disengage the forks 8 from the upper rung 6. It will be seen that the step may be disposed at any one of a number of different angular positions by engaging different notches 9 over the lower rung of the pair. Each side member is provided with an inwardly-extending ledge 10. The platform 11 is fastened by means of bolts or screws 12 to these ledges between the side members and serves as the step proper of the construction. It will be seen, therefore, that my improved step may be supported between any pairs of rungs of the ladder and provide a broad, flat step for a workman upon which he may stand without discomfort for a long period of time, which is not possible with the small narrow rungs that a ladder is ordinarily provided with.

Each side piece 7 is transversely slotted as at 13 to receive an arm 14 which is held at an adjusted position in the slot by means of a set-screw 15. These arms extend outwardly from the ladder when the step is positioned between a pair of rungs on the opposite side from the step and serve as supports for a removable auxiliary platform or as a support for one end of a plank in case two ladders provided with this construction are employed, as shown in Figures 1 and 2. The ends of the arms are turned up as at 16 to prevent the platform or plank falling off.

What I claim is:

1. In combination with a ladder having a plurality of rungs, a platform step provided with end pieces adapted at opposite ends to be releasably engaged between a pair of rungs to secure this step in position on one side of the ladder, said platform step provided with arms which project on the opposite side of the ladder from the platform step and are adapted to serve as supports for an auxiliary platform.

2. In combination with a ladder having rungs, a detachable scaffolding member com-

prising uprights adapted to be removably engaged between a pair of ladder rungs for support and provided with a platform step extending outwardly from the ladder on one side, and arms extending outwardly from the ladder on the opposite side, which arms are adapted to support an auxiliary removable platform.

3. In combination with a ladder having rungs, a detachable scaffolding member comprising a pair of uprights adapted to be disposed between a pair of ladder rungs, each upright having its opposite ends formed to engage said rungs for support, a platform step carried by said uprights to extend outwardly from the ladder on one side thereof, and arms adjustably carried by the uprights to extend outwardly from the ladder on the opposite side from said step.

EDWARD C. JACKSON.