Aug. 31, 1926. 1,598,367

I. DIAMOND

SAFETY SCAFFOLD DEVICE

Filed Sept. 19, 1925

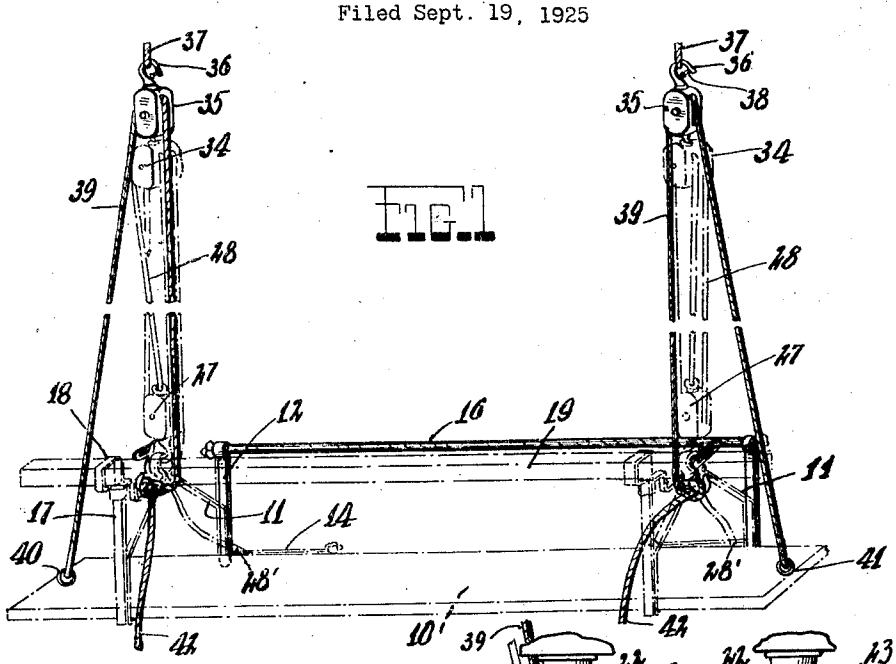


FIG. 1

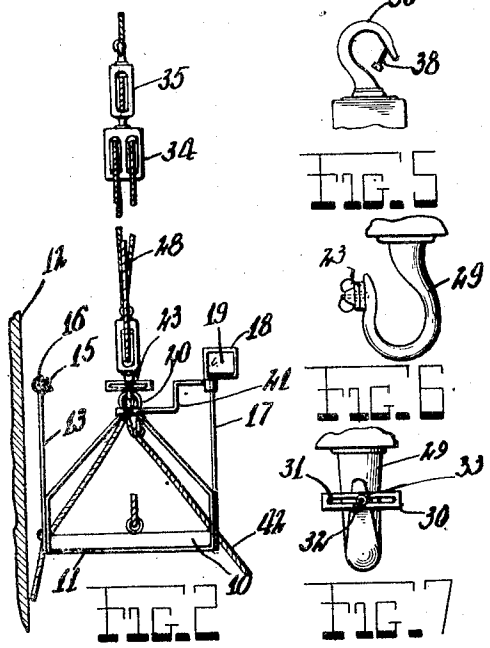


FIG. 2

FIG. 5

FIG. 6

FIG. 7

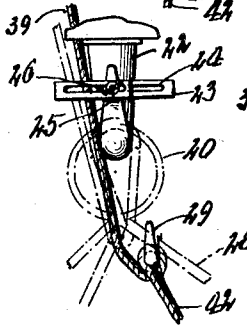


FIG. 3

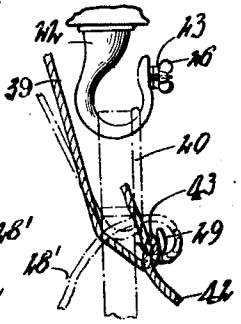


FIG. 4

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UNITED STATES PATENT OFFICE.

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SAFETY-SCAFFOLD DEVICE.

Application filed September 19, 1925. Serial No. 57,270.

This invention relates to improvements in scaffolding, particularly to a safety-scaffold, and it is the principal object of the invention to provide a scaffold on which the workmen can work in absolute safety without danger of losing their hold on account of slipping guy ropes.

Another object of the invention is the provision of a safety-scaffold equipped with auxiliary guy ropes in addition to the regular block and tackle arrangement.

A further object of the invention is the provision of a safety-scaffold with which safety-hooks of a novel and peculiar construction are used in order to positively prevent a slipping of the ropes from said hooks.

A still further object of the invention is the provision of a safety-scaffold of improved, simple and inexpensive construction, yet durable and efficiently preventing accidents to workmen.

These and other objects and advantages of the invention will become more fully known as the description thereof proceeds, and will then be specifically defined in the appended claims.

In the accompanying drawing, forming a material part of this disclosure:

Fig. 1 is a perspective view of a safety-scaffold constructed according to the present invention.

Fig. 2 is an end view thereof.

Fig. 3 is an enlarged detail view of an attachment hook and safety-guard.

Fig. 4 is a side elevation thereof.

Fig. 5 is a fragmentary detail view of a safety-suspension hook.

Fig. 6 is a side elevation of a modified form of hook.

Fig. 7 is a front elevation thereof.

The improved safety-scaffold constructed according to the present invention comprises a foot-board 10 of any well known, suitable material and dimensions supported in end brackets 11 to which are attached in rear of the scaffold, near the wall 12 of a building, uprights 13 in such a manner that they can be folded against the board 10, if required, as indicated at 14 in Figure 1.

The upper ends of the uprights 13 are formed into eyes 15 to which the ends of a rope 16 or other flexible element are secured in any suitable manner. This flexible element will present a firm hold for the workmen and prevent them slipping off the scaffold between board 10 and wall 12.

In front of the brackets 11 posts 17 are attached carrying at their upper ends brackets or loops 18 formed by suitably shaping the material of the posts for the reception of a front rail or strip 19 for protecting the workmen against a fall from the scaffold.

The upper ends of brackets 11 are formed into rings 20, and side bars 21 of the form illustrated in Figure 2 connected to said rings in any desirable manner, and thereafter with the posts 17 to protect the workmen from slipping off the scaffold endwise.

Hooks 22 are passed through the rings 20, and an accidental slipping off of the rings from said hooks is prevented by the arrangement of a guard 23 having a longitudinal slot 24 formed therein through which a pin 25 passes adapted to be displaced in said slot and to be locked in its respective adjusted positions by means of a wing nut or nuts 26.

The hooks 22 are the end members of a block and tackle arrangement, generally designated 27, including the ropes 28 which have their ends 28′ formed into a knot or knots and slung in the usual well known manner about a pair of hooks 29 mounted on the oblique upper portions of bracket 11, and then falling over the front part of the scaffold 10.

The hooks 29 have each a guard bar 30 with a longitudinal slot 31 in which a pin 32 travels carrying at its outer end a wing nut 33 for allowing a locking of the pin in any of its adjusted positions.

The upper pulley of the block and tackle arrangement is designated 35 and has an upper hook 36 formed therewith adapted for the suspension of the block and tackle arrangement from a suspension rope or cable or cables 37 of any desired suitable material or the like.

The hooks 36 are equipped with inner projecting headed pins or bolts, screws or the like, 38 for preventing a slipping of the cables 37 off the hooks 36.

Auxiliary ropes or cables 39 have their outer ends secured to the board 10 near its ends, as at 40, 41, while their inner ends 42, are guided over pulleys 35 and knotted over hooks 29 on top of ropes 28, as indicated at 43 in Figure 4.

The operation of my device will be entirely clear from the above description thereof, the auxiliary guy ropes 39 will effectively prevent a slipping of the cables or entire breaking loose of the same, while the safety

hooks will prevent the ropes from sliding off, and the rear guard which preferably is a flexible one will protect the workmen against falling off between scaffolding and building, while the front rail and the end rails will protect them against a fall off the front or ends of the scaffold.

It is to be understood that I have disclosed as an example the preferred form of my device only, and that the same is subject to many changes in its general arrangement as well as in the construction of the minor details thereof such as come within the scope of the appended claims without departure from the spirit of the invention.

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

1. In a safety-scaffold of the class described, a foot board, a pair of brackets supporting said foot board, means for suspending said foot board and brackets from a support, auxiliary means protecting said first named means from slipping, a plurality of safety hooks for holding the ropes of said suspending and auxiliary means, each comprising a guard having a longitudinal slot formed therein, a pin adapted to travel in said slot, and means for locking said pin in any of its relative positions in said slot.

2. In a safety-scaffold of the class described, a foot board, a pair of brackets supporting said foot board, means for suspending said foot board and brackets from a support characterized by pulleys and ropes, auxiliary ropes having their outer ends secured to the board near its ends, and inner ends guided over the pulleys of the suspending means, thereafter knotted over hooks on top of the ropes of the suspending means, to protect the suspending means from slipping.

3. In a safety-scaffold of the class described, a foot board, a pair of brackets supporting said foot board, means for suspending said foot board and brackets from a support characterized by pulleys and ropes, auxiliary ropes having their outer ends secured to the board near its ends, and inner ends guided over the pulleys of the suspending means, thereafter knotted over safety hooks on top of the ropes of the suspending means, to protect the suspending means from slipping, said safety hooks comprising a guard having a longitudinal slot formed therein, a pin adapted to travel in said slot, and means for locking said pin in any of its relative positions in said slot.

In testimony whereof I have affixed my signature.

ISIDOR DIAMOND.